

IN THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF TEXAS
MARSHALL DIVISION

UNITED STATES AUTOMOBILE) (
ASSOCIATION) (
CIVIL ACTION NO.
VS.) (
2:18-CV-245-JRG
MARSHALL, TEXAS
NOVEMBER 4, 2019
WELLS FARGO BANK, N.A.) (8:32 A.M.

TRANSCRIPT OF JURY TRIAL

MORNING SESSION

BEFORE THE HONORABLE CHIEF JUDGE RODNEY GILSTRAP,
UNITED STATES DISTRICT JUDGE

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23 (Proceedings recorded by mechanical stenography, transcript
24 produced on a CAT system.)
25

P R O C E E D I N G S

(Jury out.)

COURT SECURITY OFFICER: All rise.

THE COURT: Be seated, please.

Are the parties prepared to read into the record those items from the list of pre-admitted exhibits used during Friday's portion of the trial?

MR. BUNT: Yes, Your Honor.

THE COURT: Please proceed.

MR. BUNT: There were two exhibits used on Friday, that were Plaintiff's Exhibit No. 7 and Plaintiff's Exhibit No. 256. That was it.

THE COURT: Any objection to that offering from Defendant?

MR. UNDERWOOD: No objection, Your Honor.

THE COURT: Do Defendants have a similar offer to make?

MR. UNDERWOOD: We do not.

THE COURT: All right. Thank you, counsel.

Counsel, one thing we did not talk about in chambers this morning that probably needs to be mentioned and dealt with before I bring the jury in, there was trial briefing filed in the case initiated by Defendant under Docket No. -- Document No. 312 with a response filed by Plaintiff at 313 regarding the issues of indicating that

08:35:32 1 only a thousand out of 6,000 banks use auto capture and the
08:35:38 2 remainder use manual capture and indicating a percentage
08:35:46 3 argument or improvement between manual and auto capture at
08:35:50 4 Chase. And having read the briefing on both of those
08:35:53 5 issues from both the Plaintiff -- or Defendant -- moving
08:35:56 6 Defendant and the Plaintiff's perspective, the Court's
08:35:59 7 persuaded that neither of those are appropriate. And both
08:36:05 8 of them risk confusion with the jury and have a higher
08:36:11 9 prejudicial value than they do a probative value.

08:36:13 10 So I am going to preclude the arguments raised in
08:36:22 11 the trial brief as noted.

08:36:30 12 Okay. Am I correct, counsel, that we finished
08:36:34 13 last Friday when the Court recessed with Mr. Weinstein on
08:36:37 14 the stand and he has stepped down; is that correct?

08:36:39 15 MR. SHEASBY: Your Honor, that is correct.

08:36:41 16 THE COURT: Okay. Give me an idea of what
08:36:43 17 Plaintiff's remaining witnesses will be.

08:36:45 18 MR. SHEASBY: Yes, Your Honor. There are going to
08:36:49 19 be four deposition plays -- five depositions plays,
08:36:52 20 Mr. Paul Rosati, Mr. Charles Oakes, Mr. Bharat Prasad,
08:36:59 21 Mr. Makoto Jitodai, and Mr. Jeff Easley and the total time
08:37:03 22 is approximately I would say one hour.

08:37:05 23 THE COURT: All of these are video depositions?

08:37:08 24 MR. SHEASBY: Yes, Your Honor.

08:37:08 25 THE COURT: All right. What will follow the video

08:37:11 1 depositions?

08:37:11 2 MR. SHEASBY: The resting of our case, Your Honor.

08:37:13 3 THE COURT: All right. Who will be the
08:37:18 4 Defendant's first witness if their case-in-chief?

08:37:21 5 MR. MELSHEIMER: May it please the Court, Your
08:37:22 6 Honor. It will be Mr. Andrew Wood from Mitek.

08:37:24 7 THE COURT: All right. And estimate of the direct
08:37:27 8 time on Mr. Wood, Mr. Melsheimer?

08:37:30 9 MR. MELSHEIMER: 45 minutes to one hour, Your
08:37:32 10 Honor.

08:37:32 11 THE COURT: Okay. That's helpful. Thank you,
08:37:35 12 counsel.

08:37:35 13 All right. Let's bring in the jury, please.

08:38:00 14 COURT SECURITY OFFICER: All rise.

08:38:01 15 (Jury in.)

08:38:02 16 THE COURT: Welcome back, members of the jury.
08:38:07 17 Please have a seat.

08:38:09 18 As you will recall, we ended Friday's portion of
08:38:17 19 the trial with the testimony of Mr. Roy Weinstein.
08:38:22 20 Mr. Weinstein's testimony was completed at the time the
08:38:24 21 Court recessed on Friday, and we'll proceed with the
08:38:27 22 remainder of Plaintiff's case-in-chief and its subsequent
08:38:33 23 witnesses at this time.

08:38:35 24 Plaintiff, call your next witness.

08:38:39 25 MS. GLASSER: Good morning. May it please the

08:38:41 1 Court. USAA calls by video deposition Mr. Paul Rosati,
08:38:45 2 Wells Fargo's mobile deposit product manager.

08:38:49 3 THE COURT: All right. Proceed with this witness
08:38:50 4 by deposition.

08:38:51 5 (Videoclip played.)

08:38:56 6 QUESTION: Can you state your full name for the
08:39:14 7 record?

08:39:14 8 ANSWER: Paul Rosati.

08:39:15 9 QUESTION: Where are you employed?

08:39:16 10 ANSWER: Wells Fargo Bank.

08:39:17 11 QUESTION: Sir, after Mobile Deposit 2.0 was
08:39:22 12 implemented by Wells Fargo in 2014, have there been any
08:39:32 13 additional modifications to the auto capture features on
08:39:41 14 the application?

08:39:43 15 ANSWER: Can't speak to what Mitek did or didn't
08:39:46 16 do to auto capture.

08:39:48 17 QUESTION: Sir, you are the product manager for
08:39:55 18 the mobile deposit capture system at Wells Fargo, correct?

08:40:05 19 ANSWER: Yes.

08:40:05 20 QUESTION: You don't know how the system works; is
08:40:09 21 that your testimony?

08:40:10 22 ANSWER: You asked me the modifications to auto
08:40:14 23 capture, which is a Mitek product.

08:40:16 24 QUESTION: How does the mobile capture deposit
08:40:25 25 system at Wells Fargo work from the time of the phone

08:40:29 1 hovering over the check image?

08:40:32 2 ANSWER: It's not Wells Fargo functionality. It's
08:40:36 3 auto capture and Mitek's product.

08:40:39 4 QUESTION: You understand that the Wells Fargo
08:40:42 5 application is an application distributed by Wells Fargo,
08:40:46 6 correct?

08:40:47 7 ANSWER: Yes.

08:40:48 8 QUESTION: You understand that that application
08:40:49 9 has code on it, correct?

08:40:51 10 ANSWER: Yes.

08:40:52 11 QUESTION: It's your testimony that some of that
08:40:55 12 code is Mitek's code, correct?

08:40:57 13 ANSWER: Yes.

08:40:58 14 QUESTION: And you don't know how that application
08:41:02 15 works, correct?

08:41:04 16 ANSWER: I don't.

08:41:05 17 QUESTION: You are aware that USAA has a mobile
08:41:12 18 deposit capture system, correct?

08:41:15 19 ANSWER: Yes.

08:41:15 20 QUESTION: When did you become aware of USAA's
08:41:18 21 system?

08:41:19 22 ANSWER: So USAA primarily came into play when we
08:41:23 23 were looking at multiple check capture. Someone thought
08:41:28 24 they offered that capability. And also when we were
08:41:32 25 looking at manual capture and we were looking at different

08:41:36 1 competitors' UI, USAA was included in that UI review.

08:41:40 2 QUESTION: So let's unpack that. "UI" refers to
08:41:46 3 user interface, correct?

08:41:49 4 ANSWER: Yes.

08:41:50 5 QUESTION: You joined the mobile product deposit
08:41:53 6 group at Wells Fargo in 2014, correct?

08:41:55 7 ANSWER: Yes.

08:41:57 8 QUESTION: You've been in that project for five
08:42:00 9 years, correct?

08:42:02 10 ANSWER: The product manager for five years, yes.

08:42:05 11 QUESTION: At some point after the date of joining
08:42:08 12 that product, your group examined the user interfaces that
08:42:13 13 USAA uses for its mobile check deposit system, correct?

08:42:18 14 ANSWER: Specific to manual and auto capture and
08:42:23 15 specific to multiple check capture.

08:42:25 16 QUESTION: Did you make Wells Fargo legal counsel
08:42:29 17 aware of the USAA press release announcing its licensing
08:42:35 18 program for mobile remote deposit capture?

08:42:39 19 ANSWER: I don't recall.

08:42:40 20 QUESTION: And to be clear for the record, you are
08:42:43 21 the manager of the remote deposit capture program for Wells
08:42:49 22 Fargo from the first quarter of 2014 through the present?

08:42:52 23 ANSWER: Product manager, yes.

08:42:54 24 QUESTION: Would it be fair to say that you've
08:42:58 25 been observing approximately a 10 percent year-over-year

08:43:02 1 growth in the frequency of deposit of checks through
08:43:05 2 images?

08:43:05 3 ANSWER: We forecasted 10 percent growth for 2019.

08:43:08 4 QUESTION: And in the past, have you seen that
08:43:10 5 same 10 percent growth year over year?

08:43:13 6 ANSWER: We've seen 10 percent or more year over
08:43:17 7 year.

08:43:18 8 QUESTION: Is there any point in time since you've
08:43:22 9 joined the program when you haven't seen 10 percent or more
08:43:26 10 growth year over year?

08:43:28 11 ANSWER: No.

08:43:29 12 QUESTION: Does anyone at Wells Fargo understand
08:43:30 13 how the auto capture function of remote deposit capture
08:43:35 14 works?

08:43:35 15 ANSWER: I can't speak for anyone at Wells Fargo,
08:43:39 16 but I can speak for myself.

08:43:40 17 QUESTION: Are you aware of anyone who has
08:43:44 18 familiarity with how the auto capture feature works?

08:43:47 19 ANSWER: Mitek has ultimate authority on that.

08:43:50 20 QUESTION: Sir, are you aware of anyone at Wells
08:43:53 21 Fargo who has familiarity with how the auto capture feature
08:43:56 22 works?

08:43:57 23 ANSWER: No.

08:43:59 24 QUESTION: Does Wells Fargo have the internal
08:44:03 25 capability of creating an alternative to its current auto

08:44:09 1 capture mobile system?

08:44:11 2 ANSWER: I don't know. I haven't looked into
08:44:14 3 that.

08:44:14 4 QUESTION: One of the things -- can you think of
08:44:22 5 any technology at Wells Fargo that is comparable to mobile
08:44:25 6 check deposit?

08:44:25 7 ANSWER: Nothing comes to mind.

08:44:28 8 QUESTION: USAA is a financial services company
08:44:33 9 that serves the military and its family, fair?

08:44:36 10 ANSWER: Yes.

08:44:37 11 QUESTION: You understand that USAA has a bank,
08:44:41 12 correct?

08:44:41 13 ANSWER: Yes.

08:44:42 14 QUESTION: In other words, you understand that its
08:44:44 15 banking division, USAA is a competitor of Wells Fargo,
08:44:49 16 correct?

08:44:49 17 ANSWER: Yes.

08:44:52 18 QUESTION: You understand that this lawsuit is
08:44:54 19 about auto capture, correct?

08:44:54 20 ANSWER: Yes.

08:44:55 21 QUESTION: Do you have an understanding about how
08:44:57 22 the auto capture functionality on Wells Fargo's system
08:45:01 23 actually works?

08:45:01 24 ANSWER: I don't have access to Mitek's source
08:45:07 25 code, no.

08:45:07 1 (Videoclip ends.)

08:45:08 2 THE COURT: Does that complete this witness by
08:45:13 3 deposition?

08:45:14 4 MS. GLASSER: It does, Your Honor.

08:45:15 5 THE COURT: Call your next witness, please.

08:45:17 6 MS. GLASSER: USAA calls by video deposition
08:45:23 7 Mr. Charles Oakes, retired USAA employee and inventor.

08:45:28 8 THE COURT: Please proceed.

08:45:30 9 (Videoclip played.)

08:45:30 10 QUESTION: Will you please state your name for the
08:45:36 11 record?

08:45:36 12 ANSWER: Charles Oakes.

08:45:37 13 QUESTION: And USAA is your current employer,
08:45:40 14 correct?

08:45:40 15 ANSWER: No, I'm retired from USAA.

08:45:42 16 QUESTION: When did you retire, sir?

08:45:44 17 ANSWER: April 1st, 2016. It's been over three
08:45:48 18 years.

08:45:48 19 QUESTION: And what have you been doing in your
08:45:50 20 retirement?

08:45:51 21 ANSWER: Playing golf, teaching golf. I teach
08:45:55 22 junior golf at church, doing ministry work for my church.
08:46:01 23 I do a lot of reading and gardening and enjoying retirement
08:46:06 24 life.

08:46:07 25 QUESTION: Prior to retiring on April 1st, 2016,

08:46:10 1 were you employed at USAA?

08:46:11 2 ANSWER: Yes, I was.

08:46:12 3 QUESTION: And how long prior to your retirement
08:46:16 4 had you been employed with USAA?

08:46:17 5 ANSWER: I had been employed with USAA for 15
08:46:19 6 years.

08:46:20 7 QUESTION: And what was your title when you were
08:46:21 8 asked to take over the Applied Research team?

08:46:23 9 ANSWER: I was promoted to director of Applied
08:46:27 10 Research. I believe it was the official title.

08:46:31 11 QUESTION: So someone at USAA would have an
08:46:33 12 interest in -- in some area of the industry, correct? And
08:46:37 13 they'd come to you and your team and say would you guys
08:46:41 14 look into this, is that a fair characterization?

08:46:43 15 ANSWER: That is -- was one of the processes
08:46:44 16 associated with it. We would get requests, and then we
08:46:46 17 would take a look at it. Did it fit, should we do it? We
08:46:51 18 would have to do kind of a cost analysis, how long would it
08:46:54 19 take. And then the result of that would end up being a
08:46:58 20 white paper analysis.

08:47:00 21 QUESTION: Would you look at what competitors in
08:47:02 22 the industry were doing?

08:47:03 23 ANSWER: That wasn't our -- that wasn't our
08:47:06 24 mission, but in the analysis of the industry, we would take
08:47:08 25 a look at who were the leaders in the industry because

08:47:12 1 usually -- what I would call a sponsor, the sponsor that
08:47:16 2 requested it would ask who are the leaders in this industry
08:47:19 3 and what is the maturity of the industry.

08:47:22 4 QUESTION: So part of your research would include
08:47:24 5 looking to see what companies were out there in that space
08:47:27 6 and analyzing what they were doing, correct?

08:47:31 7 ANSWER: We would take a look at -- as far as what
08:47:36 8 was out there in the industry and what their maturity were
08:47:41 9 associated with whatever aspect we -- we were asked to look
08:47:44 10 at.

08:47:44 11 QUESTION: So prior to that October 2006 email,
08:47:54 12 what, if any, work and research had USAA done on mobile
08:47:59 13 phones and their ability to take an image of a check?

08:48:02 14 ANSWER: Again, we were -- we were looking at the
08:48:04 15 various phones that were available at that time to
08:48:06 16 determine what it was going to be able to take to be able
08:48:09 17 to capture an image and be able to control that image and
08:48:15 18 be able to pass it on.

08:48:16 19 QUESTION: Did you attend that meeting in February
08:48:21 20 of 2008 with Mitek?

08:48:21 21 ANSWER: Yes.

08:48:22 22 QUESTION: And at the time did you have any reason
08:48:23 23 to dispute that?

08:48:24 24 ANSWER: It was a mock-up. It wasn't something
08:48:31 25 that he was showing that would process all the way through.

08:48:37 1 He never did say that it did process through. He just took
08:48:40 2 a picture of a check, and it showed up on the screen.

08:48:42 3 QUESTION: You didn't pay attention -- you didn't
08:48:45 4 really pay attention to what Mitek was doing in mobile
08:48:49 5 deposit one way or another; is that correct?

08:48:50 6 ANSWER: Not to the extent of whether they had a
08:48:52 7 system or didn't really have a system. It -- it really got
08:48:55 8 to the point that we needed to focus on our application
08:48:59 9 period and we needed to move forward.

08:49:01 10 QUESTION: So you wouldn't know one way or another
08:49:04 11 how Mitek's system operates, correct?

08:49:06 12 ANSWER: I don't have any idea how Mitek's system
08:49:09 13 works.

08:49:09 14 QUESTION: And you wouldn't have -- you have no
08:49:10 15 idea what their system was doing, say, in 2013 or 2014?

08:49:13 16 ANSWER: Not at all, no, sir.

08:49:15 17 QUESTION: And sitting here today, do you have any
08:49:17 18 idea what Mitek's system does regarding mobile deposit?

08:49:20 19 ANSWER: I don't know how their system works at
08:49:23 20 all.

08:49:23 21 QUESTION: To be clear, you were focused on USAA's
08:49:26 22 system, correct?

08:49:27 23 ANSWER: We were -- we were focused on getting to
08:49:27 24 the member the systems that we needed to develop and get
08:49:30 25 to -- to our membership.

08:49:32 1 QUESTION: You wouldn't know whether or not Mitek
08:49:38 2 uses the same auto capture technology to capture an image
08:49:46 3 of a check as the auto capture technology claimed in your
08:49:51 4 patents-in-suit, correct?

08:49:52 5 ANSWER: Again, I don't know anything about how
08:49:55 6 their system works at all.

08:49:57 7 QUESTION: Do you have any understanding of how
08:50:02 8 Wells Fargo's mobile deposit system operates?

08:50:04 9 ANSWER: I don't know anything about Wells Fargo's
08:50:07 10 system and how it operates at all.

08:50:09 11 QUESTION: So you can't say one way or another
08:50:24 12 whether Wells Fargo and its mobile deposit system uses the
08:50:29 13 ideas claimed in any of the patents-in-suit, correct?

08:50:33 14 ANSWER: Again, I -- I don't know how their system
08:50:35 15 operates at all.

08:50:36 16 QUESTION: Did you participate in ANSI's standard
08:50:40 17 setting efforts regarding check deposit or check imaging?

08:50:44 18 ANSWER: I did not participate in anything
08:50:47 19 associated with the standards body or ANSI.

08:50:50 20 QUESTION: Do you know if anyone at USAA did?

08:50:53 21 ANSWER: On the standards body?

08:50:55 22 QUESTION: Uh-huh.

08:50:57 23 ANSWER: Not to my knowledge, no.

08:51:01 24 QUESTION: What do you understand USAA to have
08:51:04 25 invented --

08:51:04 1 ANSWER: You're talking about this '571 patent?

08:51:06 2 QUESTION: Which would include the '571?

08:51:07 3 ANSWER: Primarily what was -- when we got to
08:51:12 4 this -- to this stage of mobile deposit, the check images
08:51:22 5 that we were processing -- beginning to increase greatly.
08:51:29 6 We knew way back when that little by little, as the
08:51:35 7 technology changed, we needed to be able to take advantage
08:51:38 8 of the technology, try to take as much of the work off of
08:51:42 9 the consumer in capturing an image associated with that.

08:51:47 10 So from -- from -- from this patent, what we
08:51:54 11 invented was really the autonomous capture of an image
08:51:58 12 without user having to take the picture, the monitoring of
08:52:04 13 the image, to clean it up, to make sure that it was going
08:52:09 14 to be able to pass back end processing, and -- and -- and
08:52:18 15 any type of corrective type of feedback -- again, back to
08:52:23 16 the consumer, because previously, our members were a little
08:52:30 17 bit tech -- tech savvy. They knew how to use a device to
08:52:34 18 be able to capture or obtain the image, but as we grew our
08:52:38 19 base -- needed to grow our base, we needed to do more on
08:52:43 20 the front end to be able to ensure that the image was a
08:52:48 21 good image and the confidence level that we would be able
08:52:51 22 to pass it on. Otherwise, the member is not going to use
08:52:56 23 it -- absolutely not going to use it. It's going to be too
08:53:00 24 hard to use it.

08:53:02 25 So by -- by taking all of that burden off of the

08:53:06 1 member and use it -- basically automatic, that's really in
08:53:13 2 essence what -- what this invention calls for.

08:53:17 3 QUESTION: So is it fair to say that the invention
08:53:22 4 in the 2009 patents, including the '571 patent, is an
08:53:28 5 invention related to autonomous or automatic capture of the
08:53:34 6 check image?

08:53:35 7 ANSWER: The '57 -- you're talking about again the
08:53:40 8 '571, it's the autonomous -- there's several -- again, the
08:53:44 9 autonomous capturing -- really captures -- really obtaining
08:53:47 10 a frame because there's a raw feed of frames coming into
08:53:50 11 it. And the various monitoring type of -- of checking the
08:53:55 12 image, is -- is it -- is it skewed? You have to skew it.
08:54:01 13 Is it -- is the lighting proper, to try to take that all
08:54:04 14 off the member's hands.

08:54:07 15 And so -- and, then, again, you know, the -- the
08:54:09 16 corrective feedback of maybe tilting the cam -- the
08:54:15 17 camera -- the device a little bit to the left, to the
08:54:17 18 right, up and down to be able to catch that frame and to be
08:54:22 19 able to pass it on to -- again, have a higher confidence
08:54:26 20 level that it's going to pass the back end item process and
08:54:30 21 be deposited.

08:54:31 22 QUESTION: Do you know when USAA launched its
08:54:43 23 Deposit@Mobile product?

08:54:44 24 ANSWER: Are you talking about the auto capture?

08:54:46 25 QUESTION: No, the -- the Deposit@Mobile product,

08:54:48 1 do you know when it was --

08:54:50 2 ANSWER: Around the August 2009 time frame.

08:54:52 3 QUESTION: Okay. When the product launched, did
08:54:54 4 it have auto capture?

08:54:55 5 ANSWER: When it launched in 2009, it did not have
08:55:00 6 the auto capture feature.

08:55:02 7 QUESTION: And how long did USAA operate
08:55:05 8 Deposit@Mobile without auto capture?

08:55:06 9 ANSWER: I believe that the development started on
08:55:13 10 the auto capture was around the 2011 time frame, and then
08:55:22 11 it was launched, I believe, in the 2013 time frame.

08:55:27 12 QUESTION: So is it fair to say that for
08:55:30 13 approximately four years, USAA's Deposit@Mobile used manual
08:55:36 14 capture rather than auto capture?

08:55:37 15 ANSWER: I'll try to answer it this way. The
08:55:41 16 complexity -- the complexity associated with taking from
08:55:46 17 the way that the original Deposit@Mobile ran is there was
08:55:53 18 less work on the client, more work on the server side. But
08:55:59 19 as the population grew as far as the use of it, the scaling
08:56:03 20 associated with that, that was not going to work.

08:56:08 21 So we moved the technology upfront on the device
08:56:13 22 itself to be able to capture the -- to -- to obtain the
08:56:18 23 frames in a raw feed, grab the frame, go through the
08:56:22 24 monitoring process at that point in time, that complexity
08:56:27 25 to do that was much more complex than it did as far as the

08:56:31 1 mobile and, of course, with the -- with the -- with the
08:56:36 2 scan itself.

08:56:37 3 The tech savvy people were less and less. It was
08:56:41 4 more layman. And trying to get the image in a way to be
08:56:46 5 able to process all the way through, that technology and
08:56:52 6 what we were trying to do was highly, highly complex.

08:56:56 7 So to be able to do that the right way took some
08:56:59 8 time to do that.

08:57:00 9 QUESTION: Do you recall what the failure rates
08:57:03 10 were for USAA's Deposit@Mobile product when it was using
08:57:08 11 auto -- sorry, manual capture?

08:57:12 12 ANSWER: I believe that the failure rates were
08:57:16 13 around the 15 to 16 percent, around that time -- those --
08:57:23 14 those numbers. And if I remember right, it was reduced to
08:57:28 15 about a 9 or 10 percent --

08:57:31 16 QUESTION: So --

08:57:32 17 ANSWER: -- reduction of failure rates.

08:57:37 18 QUESTION: -- the move from manual capture to auto
08:57:40 19 capture was a move from 15 or 16 percent failure to 9 or
08:57:47 20 10 percent failure, correct?

08:57:48 21 ANSWER: The introduction of the -- of the auto
08:57:49 22 capture system, we showed where the failure rates reduced
08:57:51 23 from around 15 or 16 to 9 or 10, something like that.

08:57:56 24 QUESTION: So approximately a 6 to 7 percent
08:57:59 25 decrease in failure rate, correct?

08:58:00 1 ANSWER: On the failure rates, no, that would be
08:58:05 2 around -- if my math is right, about 40 percent. If you go
08:58:11 3 from the success rates, you're talking about a 6 percent.
08:58:14 4 So I don't know if you're talking about success rates or
08:58:17 5 failure rates.

08:58:17 6 QUESTION: So what's --

08:58:19 7 ANSWER: The effective reduction is around 40, the
08:58:22 8 division -- as I understand the math.

08:58:24 9 QUESTION: So --

08:58:25 10 ANSWER: Which is a huge difference.

08:58:26 11 QUESTION: If you go from 15 to 16 percent, you're
08:58:29 12 saying there was a 40 percent drop?

08:58:31 13 ANSWER: Improvement --

08:58:34 14 QUESTION: 15 to 16 --

08:58:36 15 ANSWER: 40 percent improvement as far as failure
08:58:38 16 rates.

08:58:44 17 QUESTION: So it's your testimony to the jury in
08:58:47 18 this case that you went from a 15 to 16 percent failure
08:58:53 19 rate, and you improved that by 40 percent?

08:58:56 20 ANSWER: The difference -- the difference between
08:58:58 21 that is a 40 percent difference, and that's my -- maybe my
08:59:08 22 math is wrong.

08:59:09 23 QUESTION: Let me go back to my question. Do you
08:59:12 24 know one way or another whether the introduction of mobile
08:59:18 25 check deposit helped USAA get any new members that it did

08:59:22 1 not otherwise have?

08:59:23 2 ANSWER: That, I -- I don't know.

08:59:24 3 QUESTION: Do you have any belief as to whether or
08:59:26 4 not USAA's mobile deposit capability has helped USAA
08:59:35 5 increase its revenue?

08:59:36 6 ANSWER: I don't have those numbers. However,
08:59:41 7 based upon information that during the time that we were
08:59:45 8 launching mobile and going forward, we saw an increase of
08:59:52 9 products being taken out or -- or acquired by members that
08:59:59 10 started using the Deposit@Mobile.

09:00:02 11 So, in essence, did that -- did that increase the
09:00:06 12 revenue with the number of increases of deposits, meaning
09:00:13 13 that there's more dollars coming into the bank which then
09:00:16 14 more loans can be made that would generate revenue. So the
09:00:21 15 exact numbers associated with that, I don't have those
09:00:23 16 exact numbers. That would be something like Jeff Easley or
09:00:29 17 somebody like that would have that.

09:00:30 18 QUESTION: So sitting here today you don't have
09:00:32 19 any concrete evidence as to whether or not USAA's mobile
09:00:36 20 app has helped USAA increase its revenue?

09:00:40 21 ANSWER: I do not have those numbers.

09:00:42 22 QUESTION: Has anyone suggested that USAA would
09:00:44 23 have lost members had it not been for the development of
09:00:48 24 its mobile app?

09:00:48 25 ANSWER: I don't recall anyone saying that to me,

09:01:02 1 other than what I would say that if we did not develop the
09:01:10 2 mobile system or go further than that, then our members are
09:01:14 3 going to go somewhere else.

09:01:16 4 QUESTION: Do you recall whether or not anybody
09:01:19 5 has ever suggested that to you, that but for the
09:01:22 6 development of USAA's mobile app, you would have lost
09:01:24 7 members?

09:01:25 8 ANSWER: It's been so long, I just don't recall if
09:01:31 9 anybody told me that.

09:01:32 10 QUESTION: The imaging of checks was done by banks
09:01:36 11 long before 2006, yes or no?

09:01:38 12 ANSWER: The imaging of checks by banks prior to
09:01:42 13 2006 was done by banks.

09:01:45 14 QUESTION: So yes?

09:01:46 15 ANSWER: So USAA did not invent that part of
09:01:48 16 imaging. We -- we were much further along in the
09:01:54 17 development of our product.

09:01:59 18 Again, being able to use most of the back-end
09:02:01 19 processing and the middle tier as far as the server, we
09:02:04 20 were much further along. We were working primarily on
09:02:09 21 the -- on the -- on the mobile side.

09:02:11 22 So based upon the questions, based upon the
09:02:17 23 mock-up, they really didn't show us enough to make a
09:02:23 24 determination of how far or what -- they had anything
09:02:28 25 there. So we were -- we were -- we felt that we upon were

09:02:31 1 much further along than what they presented because, again,
09:02:35 2 of the questions that they were asking us.

09:02:37 3 QUESTION: You had some discussion with counsel
09:02:41 4 about some interactions with Mitek. Do you remember that?

09:02:43 5 ANSWER: Yes, sir.

09:02:43 6 QUESTION: So let's talk first about an email you
09:02:47 7 were shown with someone at Mitek named Louise Steller, do
09:02:51 8 you remember that?

09:02:51 9 ANSWER: Yes. There was a couple of them.

09:02:54 10 QUESTION: So let me ask you about the 2008
09:02:57 11 meeting.

09:03:00 12 ANSWER: Okay.

09:03:00 13 QUESTION: Mr. DeBello, you said, presented at
09:03:03 14 that meeting, right?

09:03:04 15 ANSWER: Yes, sir, he did.

09:03:04 16 QUESTION: What was your general impression --
09:03:07 17 well, let me ask, had you interacted with Mr. DeBello
09:03:10 18 before that February 2008 meeting?

09:03:12 19 ANSWER: There was only one that I was in on a
09:03:16 20 phone call back in the 2009 time frame when we were having
09:03:24 21 some problems with our software. I think he was on the
09:03:27 22 line.

09:03:31 23 QUESTION: At the February 2008 meeting, did
09:03:34 24 Mr. DeBello ask any questions of you or the other folks at
09:03:37 25 the meeting?

09:03:38 1 ANSWER: Yes, again, they wanted to come in and do
09:03:43 2 a presentation of -- of whatever they were saying they had.
09:03:50 3 So it was their dog and pony show. It was their
09:03:53 4 presentation. They start out by showing the presentation.
09:03:57 5 However, Mr. DeBello started asking more and more questions
09:04:04 6 about our products, about how we -- when I say "products,"
09:04:08 7 how are we processing on our client, on the mobile device,
09:04:13 8 what kind of processing were we doing on the server. And
09:04:15 9 so it was more of asking us questions about how our
09:04:19 10 applications run versus what they could possibly bring to
09:04:24 11 the table.

09:04:26 12 QUESTION: By the time of this February 2008
09:04:28 13 presentation, how far along was your team in its
09:04:33 14 development of what became Deposit@Mobile?

09:04:36 15 ANSWER: We were much further along in the
09:04:41 16 development of our product. Again, being able to use most
09:04:47 17 of the back-end processing and the middle tier, as far as
09:04:50 18 the server, we were much further along. We were working
09:04:53 19 primarily on the -- on the mobile side.

09:04:57 20 So based upon the questions, based upon the
09:05:03 21 mock-up, they really didn't show us enough to make a
09:05:08 22 determination of how far or what -- they had anything
09:05:13 23 there. So we were -- we -- we felt that we were much
09:05:17 24 further along than what they presented, because, again, of
09:05:23 25 the questions they were asking us.

09:05:26 1 (Videoclip ends.)

09:05:26 2 THE COURT: Does that complete this witness by
09:05:28 3 deposition?

09:05:29 4 MS. GLASSER: It does, Your Honor.

09:05:30 5 THE COURT: Call your next witness.

09:05:31 6 MS. GLASSER: USAA calls Mr. Bharat Prasad,
09:05:37 7 inventor.

09:05:42 8 THE COURT: Please proceed.

09:05:44 9 (Videoclip played.)

09:05:45 10 QUESTION: Mr. Prasad, how are you today?

09:05:56 11 ANSWER: I'm doing good. Thank you.

09:05:57 12 QUESTION: Does USAA claim to have invented the
09:06:00 13 concept of mobile check deposit?

09:06:03 14 ANSWER: Mobile check deposit for us is
09:06:06 15 essentially taking the picture of a check, the front and
09:06:09 16 back of the check instrument, being able to deposit it into
09:06:13 17 an account with the end user -- in our case we call them a
09:06:17 18 member -- is -- or having with USAA, and that concept is
09:06:23 19 what we invented.

09:06:24 20 QUESTION: You don't know what remotely capturing
09:06:27 21 an image of a check means?

09:06:28 22 ANSWER: It could be anything like capturing from
09:06:30 23 an ATM, capturing from a check scanner at a teller, it
09:06:35 24 could be a check scanner at a branch near your home, it
09:06:38 25 could be a scanner in your home tied to a computer, home

09:06:38 1 computer. It could be a cellular phone that you carry, a
09:06:43 2 mobile device that has ability to take a picture of a
09:06:47 3 check.

09:06:47 4 QUESTION: Okay.

09:06:47 5 ANSWER: So all of these are potentially remote
09:06:51 6 captures, including a webcam that might be on your
09:06:52 7 computer.

09:06:52 8 QUESTION: And when I refer to remote capture of
09:06:55 9 the image of a check, I'm referring to all those things.

09:06:55 10 ANSWER: Okay.

09:06:57 11 (Videoclip interrupted.)

09:06:57 12 THE COURT: Can you turn up the volume please?

09:07:00 13 (Videoclip continued.)

09:07:00 14 QUESTION: Will you agree with me that systems
09:07:03 15 existed for the remote capture of an image of a check for
09:07:04 16 transmission to a financial institution prior to your work
09:07:06 17 on these patents?

09:07:07 18 ANSWER: Not all the systems. Some of the systems
09:07:09 19 did.

09:07:09 20 QUESTION: Okay. So some of them did?

09:07:12 21 ANSWER: Yes.

09:07:12 22 QUESTION: So the answer to my question is yes,
09:07:15 23 systems existed for the remote capture of a check and
09:07:18 24 transition to a financial institution before your work on
09:07:20 25 these patents?

09:07:20 1 ANSWER: Before we started working on these
09:07:22 2 patents, there was some systems that were allowing a remote
09:07:26 3 capture of a check to come into our financial institution.

09:07:28 4 QUESTION: Are you aware of more than one way to
09:07:33 5 do mobile check deposit?

09:07:35 6 ANSWER: I'm not aware.

09:07:36 7 QUESTION: So the only way you know to do mobile
09:07:39 8 check deposit is the way that's described in these patents?

09:07:42 9 ANSWER: Again, when you -- now you are referring
09:07:45 10 to the patents. And that patent is the mobile check
09:07:47 11 deposit solution for an end user to be able to take a
09:07:50 12 picture of the check and deposit it into their account.

09:07:53 13 QUESTION: And you're aware of no other way than
09:07:57 14 your way, as a technical solution, to do mobile check
09:08:01 15 deposit?

09:08:01 16 ANSWER: Again, patents, concept-wise and
09:08:07 17 specification, layout, how it is done. When you say
09:08:09 18 technical solution, the solution could be an
09:08:13 19 implementation, and multiple implementations can exist for
09:08:17 20 the same specification in the patents.

09:08:20 21 QUESTION: Okay. Are you aware of multiple
09:08:25 22 implementations for the performance of mobile check
09:08:26 23 deposit?

09:08:26 24 ANSWER: Today in the market, there are several,
09:08:29 25 right? And we see multiple deposit capture being used

09:08:34 1 commonly with multiple banks. I'm sure that there are
09:08:37 2 different solution implementations of these concepts that
09:08:41 3 we invented in these patents. So, yes, I am aware that
09:08:45 4 there could be another solution apart from USAA's that is
09:08:49 5 an implementation.

09:08:49 6 QUESTION: And so mobile deposit capture can occur
09:08:55 7 differently than what's described in your patents, correct?

09:08:58 8 ANSWER: Mobile deposit -- capture can be
09:09:03 9 implemented differently, but it has to be under the same
09:09:08 10 concepts.

09:09:08 11 QUESTION: What do you know about the
09:09:10 12 functionality of the Wells Fargo accused product?

09:09:10 13 ANSWER: I think I mentioned that before, the
09:09:11 14 ability for somebody to select an account, being able to
09:09:14 15 capture the picture of a check, front and back, and being
09:09:18 16 able to leverage some of the auto capture functionality
09:09:23 17 that they have to be able to do that seamlessly and being
09:09:27 18 able to submit that to an account for deposit.

09:09:31 19 QUESTION: And so my question is do -- does USAA's
09:09:44 20 Deposit@Mobile product practice any of the claims of your
09:09:47 21 patents?

09:09:47 22 ANSWER: Yes.

09:09:47 23 QUESTION: It does?

09:09:48 24 ANSWER: It does.

09:09:48 25 QUESTION: Okay. Does it practice all of the

09:09:52 1 claims of your patents?

09:09:52 2 ANSWER: It does, in my understanding. Again, am
09:09:54 3 I allowed to refer back to the earlier response I gave you,
09:09:55 4 that I cannot interpret claims. That is not my expertise.
09:10:00 5 But I can certainly talk to the specifications in the
09:10:03 6 patents.

09:10:04 7 QUESTION: Okay. All right. So let's take a look
09:10:05 8 at -- we'll start with the '571 patent, Mr. Prasad.

09:10:05 9 ANSWER: Okay.

09:10:10 10 QUESTION: Okay. And you didn't claim a system
09:10:12 11 that captures an image without regard to the monitoring
09:10:16 12 criteria and then later evaluates those images to determine
09:10:19 13 which image is best?

09:10:20 14 ANSWER: That is not true. So the monitoring
09:10:26 15 criteria does not need to happen only before a capture.
09:10:31 16 There could be any number of monitoring criteria that could
09:10:33 17 happen after the capture, too.

09:10:35 18 QUESTION: But a monitoring criteria has to be
09:10:38 19 satisfied before capture --

09:10:40 20 ANSWER: Yes, sir.

09:10:41 21 QUESTION: -- to satisfy this claim?

09:10:43 22 ANSWER: Yes, sir. So there's a set of monitoring
09:10:45 23 criteria that has to be satisfied before we capture the
09:10:48 24 image for further processing.

09:10:50 25 QUESTION: When we look at the patents that we've

09:10:52 1 examined today, which of these patents do you believe has
09:10:55 2 the most significant technical value?

09:10:57 3 ANSWER: So if you look at -- we use to have a
09:11:05 4 Deposit@Home -- the ability for members to constantly
09:11:08 5 demand a better service, a better convenient way to deposit
09:11:14 6 checks, the need for reducing the failures that we are
09:11:17 7 seeing in our earlier solutions. For me, the '571 patent
09:11:24 8 talks a lot about auto capture, which became critical to
09:11:30 9 our success, especially after we validated it in 2013.

09:11:34 10 QUESTION: Okay. So you think the '571 patent is
09:11:36 11 the most technologically valuable of the patents we've
09:11:41 12 talked about today?

09:11:42 13 ANSWER: Again, I don't want to tie a patent to a
09:11:48 14 value, because if you see the specifications of earlier
09:11:54 15 patents to the '571 patent, you see a lot of the same
09:11:57 16 information existing.

09:11:59 17 So I wouldn't separate out the specification
09:12:04 18 components to identify anything in isolation for the '571
09:12:10 19 patent. It is all built into the remote deposit capture
09:12:15 20 infrastructure. But what I can tell you is from a
09:12:17 21 technical standpoint, auto capture was a huge leap
09:12:21 22 technically from a value perspective to be able to achieve
09:12:25 23 something that is absolutely necessary for us to keep our
09:12:28 24 members.

09:12:28 25 QUESTION: Is USAA aware of how Mitek's Mobile

09:12:39 1 Deposit functions?

09:12:39 2 ANSWER: When you say "functions," are you talking
09:12:41 3 about the inner workings?

09:12:43 4 QUESTION: Yes.

09:12:44 5 ANSWER: No, we're not.

09:12:46 6 QUESTION: What is USAA's level of knowledge of
09:12:51 7 the function of Mitek's Mobile Deposit?

09:12:52 8 ANSWER: USAA is only aware of what Mitek has
09:12:58 9 published in public, and there are some documents like
09:13:03 10 market analysis and other reports that talk about Mobile
09:13:10 11 Deposit, the term Mitek has, you know, released to its
09:13:12 12 customers.

09:13:13 13 QUESTION: Agree?

09:13:15 14 ANSWER: So you have to define what auto capture
09:13:18 15 means for the company at that point in time.

09:13:22 16 So are you saying auto capture with respect to
09:13:26 17 what's laid out in the claims of these patents?

09:13:28 18 QUESTION: Yes.

09:13:29 19 ANSWER: Okay.

09:13:42 20 QUESTION: So you think every commercially
09:13:44 21 available implementation of auto capture on the market
09:13:54 22 today infringes USAA's patents, '571, '090?

09:14:02 23 ANSWER: I'm not aware of every commercially
09:14:05 24 available solution out there for mobile check capture, but
09:14:13 25 what I understand is any mobile auto capture solution, auto

09:14:20 1 capture check solution that talks to the claims details in
09:14:27 2 these patents that we refer to would be infringing them, in
09:14:31 3 my opinion.

09:14:32 4 But I haven't done any infringement analysis, as
09:14:36 5 I'm not a legal person to do that.

09:14:39 6 QUESTION: And -- and you said, paraphrasing
09:14:44 7 again, that Wells Fargo's implementation cannot be the same
09:14:46 8 implementation because we, USAA, haven't marketed ours to
09:14:52 9 anyone else. Do you remember saying something like that
09:14:54 10 previously?

09:14:54 11 ANSWER: Correct, so, yes.

09:14:58 12 QUESTION: Let me -- so my question is, what did
09:14:59 13 you mean when you said that the Wells Fargo implementation
09:15:02 14 couldn't be the same as the USAA implementation?

09:15:04 15 ANSWER: So I was trying to make a distinction
09:15:09 16 between technical -- technical solution and the
09:15:13 17 implementation. So it is likely that different companies
09:15:20 18 could implement something by taking a technical solution as
09:15:24 19 the base and actually implementation could be code that
09:15:30 20 they create.

09:15:32 21 Now, what I meant earlier when I said it cannot be
09:15:36 22 is just that the code base or the code actually
09:15:37 23 implementing it within Wells Fargo is proprietary to their
09:15:44 24 system, and the code that we develop for implementing the
09:15:46 25 same solution within USAA is proprietary code to USAA.

09:15:52 1 QUESTION: To your knowledge has USAA ever given
09:15:58 2 Wells Fargo access to USAA's source code for Deposit@Home
09:16:00 3 or Deposit@Mobile?

09:16:00 4 ANSWER: I'm not aware of any of that.

09:16:02 5 QUESTION: And to your knowledge has USAA ever
09:16:03 6 provided its source code for Deposit@Home or Deposit@Mobile
09:16:07 7 to any other bank for them to use to offer mobile deposit?

09:16:13 8 ANSWER: I'm not aware of that.

09:16:15 9 QUESTION: Have you personally seen any source
09:16:17 10 code for Wells Fargo's Mobile Deposit system?

09:16:21 11 ANSWER: No, I have not.

09:16:23 12 (Videoclip ends.)

09:16:23 13 THE COURT: Does that complete this witness by
09:16:25 14 deposition?

09:16:26 15 MS. GLASSER: It does, Your Honor.

09:16:27 16 THE COURT: Call your next witness.

09:16:28 17 MS. GLASSER: USAA calls Mr. Makoto Jitodai, Wells
09:16:38 18 Fargo's corporate representative.

09:16:39 19 THE COURT: By deposition?

09:16:40 20 MS. GLASSER: By deposition video.

09:16:42 21 THE COURT: Please proceed.

09:16:43 22 (Videoclip played.)

09:16:44 23 QUESTION: Good morning, sir. Can you state your
09:16:48 24 full name for the record?

09:16:48 25 ANSWER: My full name is Makoto Scott Jitodai.

09:16:53 1 QUESTION: Sir, are you employed by Wells Fargo?

09:16:56 2 ANSWER: Yes, I am.

09:16:56 3 QUESTION: What is your position at Wells Fargo?

09:16:58 4 ANSWER: I am a software systems architect at

09:17:03 5 Wells Fargo.

09:17:03 6 QUESTION: Sir, have you been designated to speak

09:17:05 7 on behalf of Wells Fargo?

09:17:06 8 ANSWER: I have been designated to speak on behalf

09:17:09 9 of Wells Fargo for the topics that I -- that I've seen.

09:17:16 10 QUESTION: What non-infringing alternatives exist

09:17:21 11 to Wells Fargo's current mobile check deposit system?

09:17:26 12 ANSWER: In reference to Wells Fargo's mobile

09:17:32 13 check deposit system, in terms of non-infringing

09:17:35 14 alternatives, there is a manual capture option.

09:17:38 15 QUESTION: Do you know what the capture success

09:17:44 16 rate is with the manual capture system?

09:17:46 17 ANSWER: I do not.

09:17:46 18 QUESTION: Do you know if the capture rate for the

09:17:49 19 manual system is sufficiently high that it would even be

09:17:57 20 acceptable to consumers today?

09:17:59 21 ANSWER: I cannot qualify anything about a success

09:18:02 22 rate for this. I -- I -- I am here for -- I understand how

09:18:04 23 the components work together tailored.

09:18:07 24 QUESTION: Okay.

09:18:07 25 ANSWER: I cannot speak to that.

09:18:09 1 QUESTION: You can't tell me whether manual
09:18:11 2 capture would have sufficient acceptance rates to be
09:18:15 3 acceptable to customers, yes or no?

09:18:15 4 ANSWER: No.

09:18:16 5 QUESTION: And the -- the word that you -- that
09:18:21 6 you just spelled out, kMiSnapCaptureMode, that's a
09:18:26 7 parameter?

09:18:28 8 ANSWER: That is correct. That is a parameter
09:18:30 9 that Wells Fargo has been given to set for manual capture.

09:18:33 10 QUESTION: Okay. And so -- so Wells Fargo can
09:18:39 11 change that one parameter to allow for manual capture only
09:18:43 12 in the Mobile Deposit product; is that correct?

09:18:46 13 ANSWER: That is correct, on the -- on the iOS
09:18:52 14 operating system.

09:18:52 15 QUESTION: Is there a different parameter in
09:18:54 16 Android that Wells Fargo can set so that manual capture
09:19:00 17 occurs in MiSnap?

09:19:01 18 ANSWER: Yes.

09:19:01 19 QUESTION: And what is that parameter?

09:19:02 20 ANSWER: Okay. For the sake of the court
09:19:10 21 reporter, I will spell it out again.

09:19:11 22 On the Android side, there is a parameter that you
09:19:15 23 can set, MiSnap_Capture_Mode, and we set it to an
09:19:36 24 enumeration. The enumeration, again, I will spell out,
09:19:48 25 MiSnap_Capture_Mode_MANUAL, which is the equivalent of 1.

09:20:11 1 QUESTION: Did you speak with anyone else
09:20:13 2 regarding non-infringing alternatives?

09:20:17 3 ANSWER: I spoke to Paul Rosati.

09:20:20 4 QUESTION: What -- what did you learn from
09:20:22 5 Mr. Rosati?

09:20:22 6 ANSWER: Let's see, from Paul Rosati, I learned
09:20:36 7 the estimated cost for conversion to manual capture.

09:20:39 8 QUESTION: And to -- and do you know who
09:20:41 9 Mr. Rosati spoke with to obtain the cost information?

09:20:45 10 ANSWER: Paul spoke -- spoke to development
09:20:48 11 managers, Devika Sabharwal, Kumaran Srimatha. He also
09:20:55 12 spoke to QA James Silas and Monica Harvin.

09:20:59 13 QUESTION: What area is Monica Harvin in?

09:21:02 14 ANSWER: I believe she's in what's called digital
09:21:04 15 customer experience.

09:21:05 16 QUESTION: Now, what estimated cost did Mr. Rosati
09:21:08 17 provide to you?

09:21:08 18 ANSWER: 111,760.

09:21:13 19 QUESTION: Okay.

09:21:13 20 ANSWER: 111,760.

09:21:15 21 QUESTION: Did Mr. Rosati provide a break-out for
09:21:19 22 that number?

09:21:20 23 ANSWER: Yes, he did.

09:21:20 24 QUESTION: And what -- what is the break-out for
09:21:23 25 that number?

09:21:24 1 ANSWER: Okay. The development cost is 65,280;
09:21:32 2 the quality assurance cost is 38,880, and the digital
09:21:38 3 experience design is 7,600.

09:21:40 4 QUESTION: Okay. And based on your preparation as
09:21:44 5 Wells Fargo's corporate representative, what is your
09:21:46 6 understanding of the cost for Wells Fargo to implement the
09:21:52 7 manual capture for Mobile Deposit?

09:22:00 8 ANSWER: I think you already asked that. The
09:22:02 9 estimated cost is 111,760 total.

09:22:06 10 (Videoclip ends.)

09:22:07 11 THE COURT: Does that complete this witness by
09:22:12 12 deposition?

09:22:13 13 MS. GLASSER: It does, Your Honor.

09:22:14 14 THE COURT: Call your next witness.

09:22:16 15 MS. GLASSER: USAA calls Mr. Jeffrey Easley, USAA
09:22:24 16 corporate representative by video deposition.

09:22:27 17 THE COURT: Please proceed.

09:22:28 18 (Videoclip played.)

09:22:28 19 QUESTION: Will you please state your name for the
09:22:33 20 record?

09:22:33 21 ANSWER: Jeff Easley.

09:22:34 22 QUESTION: And who is your current employer,
09:22:39 23 Mr. Easley?

09:22:39 24 ANSWER: USAA.

09:22:39 25 QUESTION: What is your current title at USAA?

09:22:41 1 ANSWER: Current title is assistant vice
09:22:46 2 president, governance risk compliance programs.

09:22:49 3 QUESTION: You understand that this deposition is
09:22:52 4 being taken both in your capacity as an individual and in
09:22:58 5 your capacity as a representative of the corporation, USAA?

09:23:01 6 ANSWER: I understand.

09:23:03 7 QUESTION: When you say business case, you mean
09:23:06 8 making money, correct?

09:23:07 9 ANSWER: Correct.

09:23:08 10 QUESTION: So the more services your members use
09:23:10 11 with USAA, the more money USAA makes, correct?

09:23:13 12 ANSWER: That is correct. And with that money, we
09:23:15 13 use to drive more financial security, drive more services
09:23:19 14 that help them with -- with what they're doing.

09:23:22 15 So we also give quite a bit of money back to
09:23:26 16 members as it's a member-owned association, so what we --
09:23:30 17 what we don't need, if we're not improving or fixing
09:23:33 18 things, we're giving back to members through various
09:23:36 19 programs.

09:23:36 20 QUESTION: If Mitek -- supposing Mitek was ready
09:23:40 21 to launch a beta of Mobile Deposit in February of 2008 with
09:23:47 22 not one, not two, but three banks, is it fair to say that's
09:23:52 23 some indication they were pretty far along in the process?

09:23:56 24 ANSWER: I think my answer is -- my assessment was
09:23:58 25 they weren't ready.

09:23:59 1 QUESTION: So at this time, USAA was actively
09:24:03 2 tracking the mobile offerings of its competitors, correct?

09:24:09 3 ANSWER: Correct.

09:24:10 4 QUESTION: And one of those competitors being
09:24:12 5 Wells Fargo?

09:24:12 6 ANSWER: Correct.

09:24:14 7 QUESTION: At this point, USAA knew that Wells
09:24:16 8 Fargo was offering text banking?

09:24:18 9 ANSWER: Correct.

09:24:19 10 QUESTION: Had a banking app?

09:24:21 11 ANSWER: Yes.

09:24:21 12 QUESTION: Had a mobile.com site?

09:24:24 13 ANSWER: Yes.

09:24:24 14 QUESTION: And you also do not know what the total
09:24:28 15 investment of Deposit@Mobile prior to November 2009 would
09:24:32 16 have been?

09:24:32 17 ANSWER: Not specifically, no.

09:24:37 18 QUESTION: What information are you prepared to
09:24:40 19 tell me today about the research and development costs
09:24:45 20 related to Deposit@Home?

09:24:47 21 ANSWER: The information I have today is also in
09:24:53 22 my notes under Cost, first page of Exhibit 4.

09:25:03 23 So it's estimated that major development,
09:25:06 24 including research and development, occurred from 2004 to
09:25:10 25 2013, a period of 10 years. It's estimated we had 30 core

09:25:16 1 engineers, plus a number of individuals outside of the IT
09:25:20 2 development teams working on all of our -- our RDC
09:25:25 3 solutions over that time period.

09:25:29 4 I have listed out a number of areas with
09:25:33 5 individuals involved in those development activities from
09:25:39 6 cash operations, bank systems developments, marketing
09:25:45 7 finance, corporate communications. There's a list of maybe
09:25:48 8 15 or so of these areas where individuals were involved
09:25:53 9 either in a development capacity or a business subject
09:25:58 10 matter expert to allow us to develop these products.

09:26:01 11 QUESTION: Do you have any estimate today about
09:26:05 12 the R&D costs related to the auto capture feature claimed
09:26:09 13 in the asserted patents?

09:26:10 14 ANSWER: I do not have estimates today.

09:26:15 15 QUESTION: Do you know if it was in excess of
09:26:20 16 \$50,000.00?

09:26:21 17 ANSWER: To give it a comparison, projects lasting
09:26:33 18 one year with seven developers typically cost around a
09:26:37 19 million dollars of just IT spend, just for the developers.

09:26:41 20 QUESTION: So you can't say whether it was
09:26:44 21 \$50,000.00 more or less?

09:26:45 22 ANSWER: Not without more detail.

09:26:47 23 QUESTION: USAA also tracks whether each attempted
09:26:52 24 deposit is successful?

09:26:54 25 ANSWER: Yes.

09:26:54 1 QUESTION: So using manual capture in April 2013,
09:26:58 2 USAA had a success rate of 84 percent, correct?

09:27:08 3 ANSWER: Correct.

09:27:08 4 QUESTION: And after the introduction of auto
09:27:10 5 capture, that improved to a success rate of 91 percent?

09:27:16 6 ANSWER: That's what the data shows, yes.

09:27:20 7 QUESTION: So you're looking at a 7 percent
09:27:23 8 increase, correct, in success?

09:27:25 9 ANSWER: Well, percentage of increase.

09:27:31 10 QUESTION: Of success increase, from approximately
09:27:33 11 84 to approximately 91 --

09:27:33 12 ANSWER: Correct.

09:27:34 13 QUESTION: -- that's 7 percent, correct?

09:27:35 14 ANSWER: Correct.

09:27:36 15 QUESTION: Prior to auto capture, USAA members
09:27:38 16 were experiencing an 84 percent success rate, correct?

09:27:42 17 ANSWER: Correct.

09:27:45 18 QUESTION: And your opinion is there's no value in
09:27:49 19 that 84 percent success rate?

09:27:50 20 ANSWER: Not my opinion. My point is we are in a
09:27:56 21 highly competitive environment where features like auto
09:28:05 22 capture literally have the -- the weight in terms of
09:28:12 23 whether or not members choose us for our bank and use that
09:28:17 24 feature, given they have that feature in many other places
09:28:21 25 now.

09:28:21 1 QUESTION: To be clear, for four years -- or
09:28:26 2 approximately four years from 2009 to 2013, USAA operated
09:28:32 3 mobile deposit without auto capture?

09:28:34 4 QUESTION: Correct?

09:28:37 5 ANSWER: So for approximately four years, your
09:28:41 6 members were positioning their phones and pressing a
09:28:44 7 button?

09:28:45 8 ANSWER: Correct.

09:28:45 9 QUESTION: Does USAA have any evidence that in
09:28:47 10 that four-year period where folks were pressing the button
09:28:51 11 in -- on USAA's mobile deposit app, that members left USAA
09:29:02 12 to go elsewhere because of the manual capture feature?

09:29:15 13 ANSWER: Not that I'm aware of, and I'm also not
09:29:19 14 aware that there was a competitive offering in which to
09:29:22 15 leave us for.

09:29:24 16 QUESTION: Has USAA done any analysis of whether
09:29:28 17 or not any increase in usage of a mobile deposit feature
09:29:37 18 was related to the auto capture feature versus other
09:29:40 19 environmental effects, such as larger adoption of mobile
09:29:44 20 phone usage?

09:29:46 21 ANSWER: I don't believe we have that data broken
09:29:48 22 out at that level.

09:29:49 23 QUESTION: Have you done any studies about whether
09:29:52 24 or not increased trends or increased usage of mobile
09:29:55 25 deposit was due to the introduction of the auto capture

09:29:58 1 feature versus other environmental factors such as general
09:30:02 2 increases in mobile phone use?

09:30:04 3 ANSWER: Given I personally moved away around that
09:30:09 4 time or right after that time, I don't have that
09:30:13 5 information. It's possible that we have done research on
09:30:17 6 that.

09:30:17 7 QUESTION: And USAA would have been enjoying that
09:30:21 8 economic benefit of RDC from 2009 to 2013 as it was getting
09:30:28 9 deposits from its mobile deposit app that used mobile
09:30:33 10 cap -- that used manual capture, correct?

09:30:36 11 ANSWER: As a competitive feature that attracted
09:30:40 12 checking account relationships and their balances that come
09:30:43 13 with the product, yes, correct.

09:30:45 14 QUESTION: You've gone from 33 percent of members
09:30:48 15 having -- banking with you in 2009 to 39 percent?

09:30:53 16 ANSWER: Correct.

09:30:54 17 QUESTION: In 2018?

09:30:56 18 ANSWER: Correct.

09:30:57 19 QUESTION: But still approximately 61 percent of
09:31:01 20 your members do not have a banking account with USAA?

09:31:06 21 ANSWER: A checking account.

09:31:08 22 QUESTION: A checking account?

09:31:09 23 ANSWER: Correct.

09:31:14 24 QUESTION: And as of 2018, 61 percent of your
09:31:19 25 members do not have a checking account with USAA even

09:31:26 1 though USAA has introduced auto capture to its mobile
09:31:32 2 deposit product, correct?

09:31:32 3 ANSWER: Yes, that 61 percent who do not bank with
09:31:41 4 us includes current product offerings in features.

09:31:48 5 QUESTION: And so rephrased another way, even
09:31:51 6 though you now have auto capture in your mobile deposit
09:31:54 7 product, 61 percent of your members still don't bank with
09:31:56 8 you?

09:31:57 9 ANSWER: Correct.

09:32:02 10 QUESTION: And can you tell me, when USAA was
09:32:15 11 beginning the process of Mobile@Home and mobile deposit,
09:32:25 12 how did it allocate cost for capital developments?

09:32:31 13 QUESTION: Capital developments are managed
09:32:37 14 through -- at that time a program management office was
09:32:43 15 allotted a certain amount of technology spend. The
09:32:51 16 development area, at least the core in the beginning, was
09:32:58 17 run out of Ricky Burks' -- or at least led by Ricky Burks'
09:33:05 18 development teams, but it expanded to different development
09:33:08 19 teams through the years?

09:33:09 20 QUESTION: When USAA was allocating money to
09:33:14 21 develop the Deposit@Home and Deposit@Mobile, did it break
09:33:16 22 down the allocations specifically between those two
09:33:22 23 different products or were they -- was money allocated just
09:33:25 24 to -- to both of those?

09:33:30 25 ANSWER: Money was allocated to both of those.

09:33:34 1 QUESTION: Are you familiar with the economic
09:33:36 2 benefits that USAA associates with remote deposit capture?

09:33:42 3 ANSWER: Yes, I am familiar.

09:33:44 4 QUESTION: Can you tell us generally what those
09:33:46 5 benefits are?

09:33:47 6 ANSWER: We see five economic benefits. Number
09:33:55 7 one, cost savings on check processing from channels like
09:34:06 8 check by mail costing \$1.21 per deposit to remote deposit
09:34:14 9 capture, costing four cents per deposit.

09:34:17 10 Number two, we see capital investment savings in
09:34:21 11 avoiding the building and maintaining of branches to
09:34:26 12 attract and collect more deposits. This is a traditional
09:34:32 13 banking model. That's a -- a significant amount of capital
09:34:35 14 to build and maintain those.

09:34:36 15 QUESTION: How does remote deposit capture,
09:34:38 16 whether it's by using mobile deposit or @Home deposit, how
09:34:48 17 does that allow the bank not to have additional branch
09:34:52 18 offices?

09:34:52 19 ANSWER: So the traditional banking model, up and
09:34:57 20 to that point, still here today but certainly remote
09:35:07 21 deposit capture is an innovation that -- that addresses
09:35:09 22 this. The traditional model is to open branches in
09:35:19 23 geographical areas, given customers bank with someone who's
09:35:25 24 in their neighborhood or has a physical presence, and the
09:35:29 25 branch, especially in those times, was the way in which

09:35:31 1 banks attracted new customers and deposits that they
09:35:34 2 brought with them. With remote deposit capture, that
09:35:43 3 untethered the ability to deposit a check from having to go
09:35:49 4 to a branch to do it.

09:35:52 5 QUESTION: All right. You mentioned savings
09:35:55 6 and -- and the not having to have branch offices. What
09:35:58 7 other economic benefits are associated with remote deposit
09:36:03 8 capture?

09:36:03 9 ANSWER: In the traditional -- well, in the
09:36:09 10 banking model generally, deposits that are brought to the
09:36:14 11 bank by our members serve as, you know, cheap, stable
09:36:28 12 funding sources for the bank's lending products, just like
09:36:33 13 any other bank.

09:36:34 14 So attracting deposits, especially without
09:36:41 15 spending a large amount of capital, goes into the cost of
09:36:45 16 those funds, which is what serves as the -- the cost of
09:36:50 17 what has been loaned out to members through credit cards
09:36:56 18 and/or bank loans.

09:36:58 19 And the difference between that cost and the
09:37:00 20 interest rate on the -- on the loans or the credit card is
09:37:05 21 what's known as a net interest margin, so that's another
09:37:09 22 economic benefit.

09:37:10 23 In this case, other banks have a cost of funds for
09:37:15 24 deposits, but the branch network is -- is a significant
09:37:20 25 cost of that.

09:37:21 1 In this case, not spending that capital brings the
09:37:25 2 cost of our funds to be lent out lower -- you know,
09:37:29 3 competitively lower.

09:37:30 4 QUESTION: So if USAA does not have money that its
09:37:35 5 members are depositing for it to loan out, where does it go
09:37:40 6 to get money to loan out to other folks?

09:37:43 7 QUESTION: Well, first of all, if -- if any bank
09:37:46 8 doesn't have deposits to loan, the financial regulators
09:37:50 9 would not be happy or not approve of that model. That's
09:37:57 10 somewhat what happened in the banking crisis of 2008.

09:38:01 11 But alternatives to obtaining funds to lend would
09:38:10 12 come from loading -- you know, borrowing from the
09:38:16 13 Fed Reserve, borrowing from other banks. The cost of that
09:38:21 14 would be significantly higher.

09:38:24 15 QUESTION: What other economic benefits does USAA
09:38:27 16 associate with remote deposit capture?

09:38:28 17 ANSWER: Another economic benefit is the ecosystem
09:38:36 18 in which a member who has a checking account with us is
09:38:42 19 likely to be introduced to other products that USAA offers.

09:38:49 20 So the checking relationship, as we refer to it,
09:38:55 21 means a member experiences USAA, and a service like remote
09:38:59 22 deposit capture is a very valuable service in terms of
09:39:04 23 convenience and time savings for members. So that, as we
09:39:11 24 say internally, delightful experience leads to an interest
09:39:16 25 in other ways that USAA can provide financial services to

09:39:19 1 them.

09:39:19 2 So there's a path in -- which typically follows
09:39:22 3 the acquisition of a checking account where a member is
09:39:24 4 likely to pick up a savings account, an auto loan, or auto
09:39:32 5 insurance product or -- or a credit card product as part of
09:39:35 6 that relationship path.

09:39:37 7 Each of those products have their own financials
09:39:41 8 to them, so that's -- that's an economic benefit to USAA.

09:39:45 9 QUESTION: Why was it important to USAA to develop
09:39:50 10 the remote deposit capture system in the first place?

09:39:55 11 ANSWER: I think as a culture USAA, and certainly
09:40:04 12 I can speak for myself, is powered by facilitating
09:40:09 13 financial security for our members, the members of the
09:40:12 14 military and their families. We seek to be the provider of
09:40:16 15 choice -- that's -- that's what we do -- motivated by those
09:40:21 16 who serve us.

09:40:27 17 In doing so, remote deposit capture is a very
09:40:34 18 innovative product. Members received it extremely well.
09:40:41 19 And for us, it was very much tailored to their lifestyle,
09:40:46 20 their situations, meaning members of the military -- active
09:40:50 21 members of the military move quite a bit during their
09:40:53 22 service. It's called a permanent change of station. That
09:40:58 23 happens quite a bit in military families, and the whole
09:41:00 24 family is affected, not just the active military member.

09:41:05 25 So this was unique from our perspective in the

09:41:09 1 sense that we have a way of allowing them to bank wherever
09:41:12 2 they are anytime, anywhere, which is really suited to a
09:41:18 3 mobile military.

09:41:20 4 So that -- being the person involved in -- on the
09:41:25 5 business side and product leader creating these services,
09:41:28 6 that was a real motivation and energy source for us.

09:41:32 7 QUESTION: So if USAA already had the remote
09:41:35 8 deposit capture system, why was it important to USAA to
09:41:39 9 also come up with an auto capture feature?

09:41:45 10 ANSWER: We continue to improve the service year
09:41:50 11 over year. As we saw, competitor banks enter with
09:42:01 12 offerings of their own. It was more important to us to
09:42:05 13 achieve our mission to be a provider of choice to ensure
09:42:10 14 competitiveness -- competitiveness of the feature.

09:42:14 15 Competitiveness in this since is from a member's
09:42:18 16 perspective the ability -- the ease of use, the one time --
09:42:35 17 you know, and one attempt to put a check into view from a
09:42:37 18 digital device and have it deposited successfully. From
09:42:42 19 the member's perspective, funds, you know, into their
09:42:45 20 account, that is the convenience that's at play here, as
09:42:48 21 compared to having to be in a place where there's a bank
09:42:53 22 branch to drive to, to hand that check to a teller. And in
09:43:01 23 many cases, the funds may be available the next day, if not
09:43:05 24 days later.

09:43:06 25 So we continue to develop features around this

09:43:12 1 service to make it as simple, easy to use, and provide the
09:43:19 2 convenience of access to their deposit funds as possible.

09:43:25 3 QUESTION: Do you have any view as to the value of
09:43:28 4 the auto capture feature?

09:43:32 5 ANSWER: I do.

09:43:33 6 QUESTION: What is that?

09:43:34 7 ANSWER: We value it at about 40 percent of the
09:43:37 8 value of the product itself. The basis for that is the 40
09:43:43 9 percent improvement we saw in success rates when we
09:43:49 10 introduced the feature, meaning we improve the likelihood
09:43:57 11 by 40 percent that the image of the check that we captured
09:44:01 12 for you would be captured and processed successfully.

09:44:07 13 To a member, that meant fewer times where we told
09:44:11 14 you there was a -- there was an error and we could not
09:44:13 15 process the image.

09:44:16 16 Again, back to what is the value of this, it's
09:44:19 17 convenience. That was a huge increase in convenience for
09:44:23 18 members.

09:44:23 19 QUESTION: Are you familiar with any comparable
09:44:27 20 license agreements that we can look to analyze the
09:44:31 21 ecosystem benefits that you discussed?

09:44:34 22 ANSWER: Yes. I would say a comparable licensing
09:44:39 23 agreement is our agreement with Zelle.

09:44:42 24 QUESTION: Can you tell us what Zelle is?

09:44:44 25 ANSWER: I can. Zelle is, from a member's

09:44:50 1 perspective, a service offered to allow you to send money
09:44:55 2 to another person. So that ecosystem benefit comparison is
09:45:08 3 as an access to money. So if you need to get money to a
09:45:12 4 friend, family member, in this case, or another account you
09:45:16 5 have at another bank, this agreement with Zelle is a
09:45:19 6 service provided that gives you that access as a banking
09:45:26 7 member.

09:45:26 8 QUESTION: Those economic benefits are not unique
09:45:29 9 to auto capture, correct?

09:45:30 10 ANSWER: I would say auto capture is a competitive
09:45:37 11 feature that without it would cause benefits not to be
09:45:43 12 realized.

09:45:44 13 QUESTION: But you are -- but USAA was realizing
09:45:47 14 those benefits long before the introduction of auto
09:45:49 15 capture, correct?

09:45:49 16 ANSWER: Some amount of them, yes.

09:45:52 17 (Videoclip ends.)

09:45:52 18 THE COURT: Does that complete this witness by
09:45:55 19 deposition?

09:45:56 20 MS. GLASSER: It does, Your Honor. However, the
09:45:58 21 parties have identified two audio visual errors, and with
09:46:03 22 the Court's permission, the parties jointly would request
09:46:06 23 to play those two right now. They're from Mr. Prasad and
09:46:11 24 Mr. Rosati.

09:46:12 25 THE COURT: Do Defendants concur with that?

09:46:16 1 MR. BITTNER: Yes, Your Honor.

09:46:16 2 THE COURT: All right. Let's play these two short
09:46:18 3 corrections.

09:46:20 4 (Videoclip played.)

09:46:21 5 QUESTION: So you have no basis to claim that
09:46:23 6 Wells Fargo has copied the code that USAA uses for its
09:46:29 7 product implementation, do you?

09:46:31 8 ANSWER: So if you're talking about copying USAA's
09:46:34 9 code into Wells Fargo systems, I have no basis of that.

09:46:39 10 (Videoclip ends.)

09:47:25 11 (Videoclip played.)

09:47:25 12 QUESTION: When did you become involved with the
09:47:29 13 Mobile Deposit project at Wells Fargo?

09:47:30 14 ANSWER: Been a mobile deposit product manager for
09:47:34 15 about five years.

09:47:35 16 QUESTION: So when did that start?

09:47:38 17 ANSWER: Around Q1, 2014, when I got involved.

09:47:42 18 QUESTION: So that was at about the time that
09:47:47 19 Wells Fargo -- let me ask the question.

09:47:49 20 You became a product manager responsible for
09:47:51 21 Mobile Deposit at Wells Fargo in the first quarter of 2014,
09:47:55 22 fair?

09:47:56 23 ANSWER: Yes.

09:47:57 24 QUESTION: And that was about the time that Wells
09:47:59 25 Fargo launched its Mobile Deposit 2.0 system, fair?

09:48:03 1 ANSWER: There was a project already underway when
09:48:06 2 I joined, yes.

09:48:07 3 QUESTION: And that project was Mobile Deposit
09:48:10 4 2.0, fair?

09:48:11 5 ANSWER: Phase 2, yes.

09:48:13 6 QUESTION: And that project involved the
09:48:15 7 implementation of what's commonly known in the industry as
09:48:18 8 auto capture, fair?

09:48:19 9 ANSWER: Yes.

09:48:20 10 (Videoclip ends.)

09:48:22 11 THE COURT: All right. Does this complete the
09:48:24 12 witnesses by deposition offered by Plaintiff?

09:48:27 13 MR. SHEASBY: It does, Your Honor.

09:48:28 14 THE COURT: All right. Plaintiff, call your next
09:48:31 15 witness.

09:48:31 16 MR. SHEASBY: Your Honor, at this time, USAA rests
09:48:35 17 its case-in-chief, subject to rebuttal.

09:48:38 18 THE COURT: All right. Ladies and gentlemen, the
09:48:40 19 Plaintiff has rested its case-in-chief. We'll next proceed
09:48:44 20 with the Defendant's case-in-chief.

09:48:46 21 Before I ask Defendant to call their first
09:48:49 22 witness, we're going to take a short recess.

09:48:51 23 If you will simply close and leave your notebooks
09:48:54 24 in your chairs in the jury box, follow all the instructions
09:48:57 25 I've given you about your conduct throughout the trial,

09:49:00 1 including not to discuss the case with each other or anyone
09:49:02 2 else, we'll be back in here shortly to continue, and we'll
09:49:05 3 begin with the Defendant's first witness in their
09:49:08 4 case-in-chief.

09:49:08 5 The jury's excused for recess at this time.

09:49:12 6 COURT SECURITY OFFICER: All rise.

09:49:13 7 (Jury out.)

09:49:13 8 THE COURT: Counsel, I'll attempt to keep this
09:49:35 9 recess short.

09:49:36 10 The Court stands in recess.

09:49:38 11 COURT SECURITY OFFICER: All rise.

09:49:39 12 (Recess.)

09:49:39 13 (Jury out.)

09:49:39 14 COURT SECURITY OFFICER: All rise.

09:53:10 15 THE COURT: Be seated, please.

10:00:42 16 All right. Let's bring in the jury, please.

10:01:51 17 COURT SECURITY OFFICER: All rise.

10:02:05 18 (Jury in.)

10:02:05 19 THE COURT: Please be seated.

10:02:18 20 Plaintiff having rested its case-in-chief,
10:02:27 21 Defendant, call your next -- first witness.

10:02:30 22 MR. MELSHEIMER: May it please the Court, Your
10:02:33 23 Honor. Wells Fargo calls Mr. Andrew Wood, and he will be
10:02:36 24 examined by Mr. Michael Bittner.

10:02:39 25 THE COURT: All right. Mr. Wood, if you'll come

10:02:41 1 forward and be sworn, please.

10:03:03 2 (Witness sworn.)

10:03:03 3 THE COURT: Please come around, sir, have a seat
10:03:05 4 at the witness stand.

10:03:06 5 MR. BITTNER: And, Your Honor, as Mr. Wood is
10:03:09 6 getting seated, I'm going to be using the easel. May I go
10:03:12 7 ahead and move it forward?

10:03:14 8 THE COURT: You may.

10:03:22 9 All right. Ladies and gentlemen of the jury, I
10:03:29 10 need to instruct you before counsel begins their direct
10:03:33 11 examination that Mr. Andrew Wood is a fact witness. He is
10:03:37 12 not an expert witness. He is here to discuss how a certain
10:03:43 13 product works. He is not here to discuss whether the
10:03:48 14 working of that product relates in any way to the
10:03:52 15 patents-in-suit or the asserted claims at issue.

10:03:54 16 All right. With that, you may proceed with your
10:03:56 17 direct examination.

10:03:57 18 MR. BITTNER: May it please the Court.

10:03:57 19 ANDREW WOOD, DEFENDANT'S WITNESS, SWORN

10:03:57 20 DIRECT EXAMINATION

10:03:59 21 BY MR. BITTNER:

10:03:59 22 Q. Good morning, Mr. Wood. Would you please introduce
10:04:01 23 yourself to the jury?

10:04:02 24 A. Hi. My name is Andrew Wood.

10:04:06 25 Q. Where do you live?

10:04:07 1 A. I live in San Diego, California.

10:04:10 2 Q. Is this your first time in East Texas?

10:04:12 3 A. No, it's not. My wife has some family down in Alto.

10:04:17 4 It's about an hour and a half south -- southwest of here.

10:04:20 5 And I've been here a couple of times, once, when my first

10:04:23 6 son was born to introduce him to the family, and another

10:04:26 7 time to celebrate New Year's.

10:04:29 8 Q. Where do you currently work?

10:04:30 9 A. I work at Mitek Systems.

10:04:33 10 Q. And what is your current position?

10:04:35 11 A. Currently, I'm a staff software engineering manager.

10:04:39 12 Q. Can we talk a little about your background?

10:04:42 13 A. Yes, we may.

10:04:43 14 Q. Where did you go to college, sir?

10:04:45 15 A. I went to the University of California San Diego.

10:04:50 16 Q. And what was your degree in?

10:04:51 17 A. It was in computer science.

10:04:55 18 Q. Why did you decide to get a degree or pursue a degree

10:04:59 19 in computer science?

10:05:01 20 A. I was really into playing video games as a teenager,
10:05:04 21 and I wanted to learn how to build and develop video games.

10:05:07 22 Q. And did you, indeed, develop video games after college?

10:05:11 23 A. No, I did not.

10:05:11 24 Q. What did you do instead?

10:05:14 25 A. I started working with cell phones instead.

10:05:17 1 Q. And when did you first start working with cell phones?

10:05:19 2 A. That was the summer of my junior year, so 2003.

10:05:25 3 Q. Back in 2003, what kind of cell phones were you working
10:05:28 4 with?

10:05:28 5 A. Those were those old flip phones.

10:05:32 6 Q. Now, did you start working with these old flip phones
10:05:35 7 before or after the first iPhone was released?

10:05:39 8 A. It was before. The iPhone wasn't released for another
10:05:44 9 four years.

10:05:45 10 Q. And what were you doing with flip phones -- cell phones
10:05:48 11 in the pre-iPhone days?

10:05:50 12 A. Back then, I was writing apps for flip phones.

10:05:54 13 Q. Is app short for application?

10:05:59 14 A. Yes, that's right.

10:05:59 15 Q. What is an app or application?

10:06:01 16 A. An app or application is some software that runs on a
10:06:06 17 computer or on a phone.

10:06:08 18 Q. What are some of the standard apps that run on today's
10:06:12 19 smartphones?

10:06:12 20 A. You might have a maps app, text messaging app, Internet
10:06:19 21 browser app, the phone app to call people, a camera app,
10:06:25 22 photo gallery app, lots of things.

10:06:28 23 Q. Let's go back to 2003 and your work with flip phones.

10:06:33 24 What are -- can you give the jury an example of an

10:06:35 25 application that you worked on back in those early flip

10:06:38 1 phone days?

10:06:40 2 A. Sure. Our most popular application back then was a
10:06:45 3 searchable version of the King James Bible and the Spanish
10:06:48 4 version, as well, because back then, you couldn't access
10:06:51 5 the whole Internet on your phones. You could only get a
10:06:56 6 small part of it, so people needed apps to get things that
10:06:59 7 they wanted.

10:07:00 8 Q. What are some of the other apps that you developed back
10:07:02 9 then?

10:07:03 10 A. We also developed a dictionary and a thesaurus app so
10:07:08 11 people could look up words on-the-go, as well.

10:07:08 12 Q. All tolled, how long have you been working with
10:07:11 13 software development?

10:07:11 14 A. Over 20 years, but 16 years professionally.

10:07:18 15 Q. And how did you end up at Mitek?

10:07:22 16 A. After flip phones, smartphones started getting more
10:07:26 17 popular. I was interested in learning how to develop for
10:07:27 18 those. I took some courses, did some training, and
10:07:29 19 eventually Mitek had an opening for a smartphone app
10:07:35 20 development. I applied, and I was hired.

10:07:37 21 Q. When you were hired at Mitek, were you focused on
10:07:43 22 programming for Android phones or for iPhones?

10:07:46 23 A. It was Android.

10:07:47 24 Q. What titles have you held during your time at Mitek?

10:07:50 25 A. I started as an Android software engineer, and then I

10:07:54 1 was promoted to lead Android software engineer. After
10:07:59 2 that, I was promoted to principal engineer for mobile
10:08:04 3 capture products.

10:08:05 4 Q. Let me stop you there. What do you mean by principal
10:08:08 5 engineer for mobile capture products?

10:08:10 6 A. Well, it was a promotion. I had been working
10:08:14 7 exclusively with Android, but I started to expand my role
10:08:18 8 and started working with iOS developers, as well, and tried
10:08:22 9 to bring our development efforts in line with each other.

10:08:25 10 Q. So when you were promoted, did you start working with
10:08:28 11 both Android and iPhone platforms for Mitek software?

10:08:32 12 A. Yes, that's correct.

10:08:34 13 Q. And what is your title today?

10:08:36 14 A. Today, I'm a staff software engineering manager.

10:08:42 15 Q. Was that another promotion?

10:08:44 16 A. Yes, it was.

10:08:44 17 Q. And what does your current job today entail? What are
10:08:48 18 your responsibilities at Mitek?

10:08:49 19 A. Today, I manage two teams of software developers for
10:08:56 20 Android iOS and web that are building Mitek's software that
10:09:03 21 runs on smartphones.

10:09:04 22 Q. And are you involved with Mitek's products today --
10:09:09 23 Mitek software today for both Android and iPhone?

10:09:14 24 A. Yes, I am.

10:09:14 25 Q. And what product specifically have you been focused on

10:09:19 1 during your time at Mitek?

10:09:20 2 A. That's mainly MiSnap.

10:09:22 3 Q. What is MiSnap?

10:09:23 4 A. So MiSnap is some software that runs on a smartphone,
10:09:33 5 and it allows you to take pictures of a variety of
10:09:39 6 different documents for a variety of purposes.

10:09:41 7 Q. Is MiSnap limited to check capture?

10:09:46 8 A. No, it's not.

10:09:47 9 Q. What else is MiSnap designed to do?

10:09:49 10 A. Well, MiSnap can also take pictures of
10:09:53 11 government-issued IDs like driver's licenses or passports.

10:09:57 12 Q. What's the purpose of that technology? Why design
10:10:01 13 something to take pictures of government-issue IDs or
10:10:07 14 passports?

10:10:08 15 A. That's for a different part of MiSnap that's used for a
10:10:11 16 Mobile Verify product. And Mobile Verify let's you sign up
10:10:16 17 for new accounts online securely, and the bank or the
10:10:21 18 company needs to know that you are who you say you are, so
10:10:25 19 we need a picture of your ID. We need to validate that
10:10:30 20 it's a real authentic ID. We need to match that to your --
10:10:34 21 your selfie, your face.

10:10:35 22 And, conversely, if some hacker in China gets your
10:10:38 23 information, it'd make it hard for them to set up an
10:10:42 24 account in your name. So Mobile Verify is protecting
10:10:46 25 against identity theft and fraud.

10:10:49 1 Q. What are some companies that use Mobile Verify?

10:10:53 2 A. Lots of companies, including PayPal, a number of banks
10:10:56 3 do, as well.

10:10:56 4 Q. Let's return to mobile check deposit. Other than
10:10:59 5 taking the image of the check, what else does MiSnap do in
10:11:04 6 the mobile check deposit process?

10:11:05 7 A. That's it. It just takes the -- the front and the back
10:11:09 8 image of the check.

10:11:10 9 Q. Are you familiar with the terms "auto capture" and
10:11:13 10 "manual capture"?

10:11:14 11 A. Yes, I am.

10:11:16 12 Q. As you use it around the office, what do you understand
10:11:19 13 manual capture to mean?

10:11:22 14 A. So for manual capture, the user takes their smartphone,
10:11:26 15 holds it over the check, and there's a button on the
10:11:29 16 screen. When they're ready, they push that button, and
10:11:31 17 MiSnap takes a picture.

10:11:32 18 Q. Do you know if there's more than one way to do manual
10:11:36 19 capture?

10:11:36 20 A. Yes. Yes, there is.

10:11:38 21 Q. How do you know that?

10:11:40 22 A. We have done it several ways at Mitek.

10:11:43 23 Q. Okay. As you use it around the office, what do you
10:11:47 24 understand auto capture to mean?

10:11:47 25 A. Auto capture, you're going to hold your smartphone over

10:11:53 1 the -- the check, and it's going to automatically take the
10:11:59 2 picture for you. You don't have to push the button.

10:12:02 3 Q. Do you know if there's more than one way to do auto
10:12:05 4 capture?

10:12:05 5 A. Yes, there is.

10:12:08 6 Q. How do you know?

10:12:08 7 A. We have done it several ways at Mitek.

10:12:11 8 Q. How many different ways has Mitek done auto capture?

10:12:15 9 MR. SHEASBY: Your Honor, may we approach?

10:12:16 10 THE COURT: Approach the bench.

10:12:17 11 (Bench conference.)

10:12:27 12 THE COURT: Yes, counsel?

10:12:28 13 MR. SHEASBY: In the pre-trial conference, Your
10:12:30 14 Honor made clear that we would not have a discussion about
10:12:33 15 any versions of Mitek software that were not accused of
10:12:37 16 infringement in this case. And I believe that Mr. Bittner
10:12:41 17 is now going to ask about historical ways in which auto
10:12:44 18 capture were done. And that would violate your Court's
10:12:46 19 instruction.

10:12:46 20 So he must first, I think, lay the foundation that
10:12:49 21 he's to speak about the versions of auto capture that are
10:12:53 22 in the accused versions that are before this Court.

10:12:57 23 THE COURT: Mr. Bittner?

10:12:59 24 MR. BITTNER: First, Mr. Wood doesn't know what
10:13:00 25 the accused versions are. There is an accused version,

10:13:04 1 2.0.6, which was identified by Dr. Conte as an accused
10:13:06 2 version which has these two ways I'm about to identify with
10:13:09 3 Mr. Wood in the code side-by-side, and that's going to come
10:13:12 4 out today.

10:13:12 5 MR. SHEASBY: No, Your Honor, that's actually
10:13:14 6 incorrect. The accused version of MiSnap that is used by
10:13:18 7 Wells Fargo does not implement this other -- what he's
10:13:21 8 referring to. The only thing that's implemented by Wells
10:13:24 9 Fargo is the -- the version that Mr. Conte has been
10:13:28 10 discussing.

10:13:29 11 THE COURT: Well, the witness may not know what
10:13:32 12 the accused products in the case are, but you do,
10:13:34 13 Mr. Bittner. And you need to limit your questions to
10:13:37 14 accused products in the case.

10:13:38 15 MR. BITTNER: And I'm limiting my question to
10:13:41 16 2.0.6, which had two different ways side-by-side of doing
10:13:45 17 it in the code.

10:13:46 18 MR. SHEASBY: Your Honor, we didn't use the other
10:13:49 19 way of asserting. So he's talking about a different
10:13:51 20 something in a code that Wells Fargo never implemented.

10:13:56 21 MR. BITTNER: Your Honor's ruling on --

10:13:58 22 THE COURT: You can address that on cross, as long
10:13:59 23 as he stays within the accused products, we're all right.

10:14:03 24 MR. BITTNER: Yes, sir, and that will be clear.

10:14:07 25 THE COURT: All right. Let's proceed.

10:14:08 1 MR. SHEASBY: Thank you, Your Honor.

10:14:09 2 (Bench conference concluded.)

10:14:11 3 THE COURT: Let's proceed.

10:14:12 4 Q. (By Mr. Bittner) Mr. Wood, I want to direct your
10:14:18 5 attention to Version 2.0.6 of -- I'll ask you a question in
10:14:25 6 just a second.

10:14:25 7 Are you aware in Version 2.0.6 of MiSnap if there
10:14:31 8 are two versions of auto capture side-by-side in the code?

10:14:33 9 A. Yes, there are.

10:14:35 10 Q. Okay. Does Mitek have different names for those two
10:14:40 11 versions?

10:14:41 12 A. Yes, they do.

10:14:42 13 Q. What is the first name of the first way that Mitek has
10:14:45 14 done auto capture?

10:14:45 15 A. The original way was called video still capture mode.

10:14:50 16 Q. And, Mr. Wood, what was the name of the second way of
10:15:18 17 doing auto capture?

10:15:19 18 A. The new way was called video frame processing.

10:15:22 19 Q. Mr. Wood, what led Mitek to switch from video still
10:15:47 20 capture to video frame processing?

10:15:51 21 A. There were two main reasons for that.

10:15:54 22 Q. And what was the first?

10:15:55 23 A. The first reason was we got feedback from our
10:16:03 24 customers. They were saying that MiSnap was returning lots
10:16:07 25 of blurry images of checks, and we needed to try to improve

10:16:12 1 that and make it better.

10:16:14 2 And then the second reason was, at that time, and
10:16:19 3 still today, phones are getting more powerful, the cameras
10:16:24 4 on those phones are getting more powerful, and the images
10:16:28 5 that MiSnap was using -- was analyzing, they were getting
10:16:32 6 bigger and better and had more detail in them, so we could
10:16:36 7 just use those directly instead of having to capture a new
10:16:39 8 image.

10:16:39 9 Q. What is the main difference between video still capture
10:16:44 10 and video frame processing?

10:16:46 11 A. The main difference is that both of these will be the
10:16:52 12 camera will capture an image, MiSnap will analyze it, and
10:16:56 13 video frame processing, the new way, it just returns that
10:17:01 14 image. But in the old way, video still capture, it would
10:17:04 15 ask the camera to take a bigger high resolution photo, and
10:17:08 16 we stopped doing that with video frame processing.

10:17:11 17 Q. I'm -- I'm going to return -- is it okay if we return
10:17:14 18 to auto capture and manual capture more generally?

10:17:17 19 A. Yes.

10:17:18 20 Q. Today, does MiSnap take pictures using auto capture or
10:17:22 21 manual capture?

10:17:23 22 A. It can do both.

10:17:27 23 Q. Who makes the decision whether MiSnap uses manual
10:17:32 24 capture or auto capture?

10:17:32 25 A. That's up to the banks or the user to decide.

10:17:37 1 Q. What decisions can the banks make?

10:17:40 2 A. The banks can use just manual capture, they can use
10:17:45 3 just auto capture, or they can use some mixture of both.

10:17:51 4 Q. What do you mean mixture of both, how can you mix
10:17:55 5 manual with auto?

10:17:57 6 A. Well, I'm thinking of two ways for that.

10:18:00 7 Q. What's the first?

10:18:00 8 A. The first way is what I call -- what we call a time
10:18:04 9 out. So if you're using auto capture and it's not working
10:18:07 10 and it's been 15, maybe 20 seconds, it'll time out. MiSnap
10:18:11 11 will time out and let the user switch to manual capture
10:18:15 12 mode and push the button and take the picture. So that's
10:18:17 13 one way.

10:18:18 14 Q. Other than this time out way, what's the second way you
10:18:20 15 can mix auto capture with manual capture?

10:18:23 16 A. The second way, it's like a hybrid way. During auto
10:18:31 17 capture, some banks will still put the manual capture
10:18:35 18 button on the screen at the same time. So if it's not
10:18:38 19 working or if the user is ready, they can push that button
10:18:42 20 and manually override and take a picture.

10:18:46 21 Q. Do you know if Wells Fargo uses just auto, just manual,
10:18:51 22 or one of these mixtures that you've discussed?

10:18:54 23 A. I do. They use the mixture where it's the auto capture
10:18:58 24 hybrid with the manual capture override button.

10:19:04 25 Q. I'd like to talk about -- strike that.

10:19:07 1 I'd like to talk now about MiSnap's actual source
10:19:11 2 code, is that okay?
10:19:12 3 A. Yes.
10:19:13 4 Q. Mr. Wood, what is source code?
10:19:15 5 A. Source code is a set of instructions that a software
10:19:22 6 developer or programmer or engineer writes, and those
10:19:28 7 instructions tell a computer or a phone what to do, how to
10:19:33 8 operate, how to behave.
10:19:37 9 Q. Have you personally written source code before?
10:19:39 10 A. Yes, I have, lots of it.
10:19:42 11 Q. How long have you been writing source code?
10:19:46 12 A. For over 20 years and 16 years professionally.
10:19:53 13 Q. Are you generally familiar with the source code for
10:19:55 14 MiSnap?
10:19:56 15 A. Yes, in general, I am.
10:19:57 16 Q. How did the source code for MiSnap get written? Did
10:20:01 17 one person sit down and write it all at once, or was it
10:20:04 18 something that happened over time?
10:20:05 19 A. It wasn't just one person. It's grown and improved
10:20:10 20 over time.
10:20:10 21 Q. All tolled, how many developers have written MiSnap
10:20:23 22 source code?
10:20:23 23 A. Ballpark, at least a dozen of us.
10:20:26 24 Q. And how is it that multiple people can be writing the
10:20:30 25 same thing, how does that work in real life?

10:20:32 1 A. They can be working on different parts of the source
10:20:35 2 code at the same time, or they can come in -- a developer
10:20:38 3 can come in months or years later and try to clean up the
10:20:42 4 code or try to fix a bug or need to add some new feature or
10:20:50 5 functionality, they'll come in and modify the code.

10:20:54 6 Q. And are you familiar with the source code for Version
10:20:58 7 3.7.1 for iPhones of MiSnap?

10:21:00 8 A. Yes, in general I am.

10:21:02 9 MR. BITTNER: Mr. Barnes, can we get DTX-611.

10:21:08 10 Q. (By Mr. Bittner) Mr. Wood, what is DTX-611?

10:21:10 11 A. This is some of the source code from MiSnap iOS for
10:21:16 12 iPhones, Version 3.7.1.

10:21:21 13 Q. And are you familiar with these pages of code here in
10:21:24 14 DTX-611?

10:21:25 15 A. Yes, I am.

10:21:26 16 Q. If someone wasn't familiar with these pages like you
10:21:29 17 are, how would they be able to know that this is MiSnap
10:21:33 18 code for iPhone for Version 3.7.1?

10:21:37 19 A. You can look at the very top two lines on the title,
10:21:44 20 after ForReview, we see MiSnap, iOS, so iPhones, 3.7.1
10:21:53 21 source -- so this is some of the source for iPhones for
10:21:57 22 Version 3.7.1 of MiSnap.

10:22:00 23 Q. And we see the words ForReview here, what do those
10:22:07 24 mean?

10:22:07 25 A. ForReview means after the lawsuit was filed, Mitek

10:22:11 1 gathered all the source code for lots of different versions
10:22:16 2 of MiSnap and provided that to USAA so they could try to
10:22:19 3 understand how it works.

10:22:22 4 Q. Were you involved in collecting all the pages that were
10:22:25 5 provided in this case?

10:22:26 6 A. Yes, I was.

10:22:26 7 Q. On the second line we see here in the file directory
10:22:35 8 the word DevApp.

10:22:38 9 MR. BITTNER: Mr. Barnes, can you highlight
10:22:42 10 DevApp?

10:22:42 11 Q. (By Mr. Bittner) What does that mean?

10:22:42 12 A. DevApp means it's some of MiSnap's internal test code.

10:22:48 13 Q. Is DevApp code that's actually used by Wells Fargo?

10:22:50 14 A. No, it's not.

10:22:51 15 Q. What would it say in place of DevApp if this were code
10:22:55 16 used by Wells Fargo?

10:22:57 17 A. For Wells Fargo, it would say either MiSnap reference
10:23:01 18 app or MiSnap SDK.

10:23:04 19 Q. Was that MiSnap SDK or MiSnap reference app code
10:23:10 20 provided to USAA?

10:23:11 21 A. Yes, absolutely.

10:23:12 22 Q. Since we have it here and since it's come up, is it
10:23:15 23 okay if we look at DTX-611?

10:23:18 24 A. Yes, that's fine.

10:23:19 25 Q. On a high level, what's happening on this first page of

10:23:23 1 code that we have here?

10:23:24 2 A. At a high level, the iPhone camera has just captured
10:23:28 3 some output, 2278, captureOutput, and it has sent this to
10:23:35 4 MiSnap. It's sending an image that was captured to MiSnap.
10:23:39 5 MiSnap takes that image and then it analyzes it and tries
10:23:46 6 to determine if it thinks it's a good image or not.

10:23:49 7 Q. I want to break that down line-by-line, is that okay?

10:23:54 8 A. Yeah, that's fine.

10:23:56 9 MR. BITTNER: Let's start by looking at Lines 2278
10:23:59 10 to 2280 if we can blow those up, Mr. Barnes.

10:24:04 11 Q. (By Mr. Bittner) Mr. Wood, what is happening here on
10:24:06 12 Line 2278?

10:24:07 13 MR. SHEASBY: Your Honor, may we approach?

10:24:10 14 THE COURT: Approach the bench.

10:24:11 15 (Bench conference.)

10:24:22 16 MR. SHEASBY: Your Honor, at this point, he's
10:24:23 17 going to elicit testimony from Mr. Wood that the image is
10:24:29 18 captured when it's delivered to Mitek's software which is a
10:24:33 19 claim term in the patent, and I don't think that's
10:24:36 20 appropriate to do that in this context. I also think it's
10:24:40 21 inappropriate because Mr. Wood was not able to provide this
10:24:43 22 exact testimony in his 30(b)(6) examination deposition.

10:24:50 23 MR. BITTNER: Your Honor, Mr. Wood --

10:24:51 24 THE COURT: Wait a minute, what do you mean he was
10:24:53 25 not able to provide it in his deposition testimony?

10:24:56 1 MR. SHEASBY: I asked him, could you -- can you
10:24:58 2 identify for me the line of code where it says it's
10:25:00 3 captured before monitoring criteria, and he said he could
10:25:03 4 not.

10:25:05 5 MR. BITTNER: I disagree. He was never asked
10:25:06 6 about these lines of code. He was asked about code later
10:25:09 7 on. The deposition transcript portion that Mr. Sheasby is
10:25:15 8 referencing is where he's talking about when the camera
10:25:18 9 actually captures and Mr. Wood said that's going to be
10:25:21 10 proprietary Apple code. This is the message back and
10:25:22 11 forth.

10:25:22 12 MR. SHEASBY: I can get you the transcript
10:25:25 13 passage, Your Honor.

10:25:25 14 THE COURT: That's not necessary. If he's given a
10:25:28 15 prior inconsistent statement in his deposition and not able
10:25:31 16 to do something now he's able to do, you're free to attempt
10:25:35 17 to impeach him during cross-examination.

10:25:38 18 Also, you're free to elicit from him an admission
10:25:42 19 that the word "capture" here is not necessarily is the way
10:25:45 20 the Court's construed it in this lawsuit, the same thing
10:25:49 21 with "analyze." All of that can be done on
10:25:51 22 cross-examination. None of it rises to the level of me
10:25:54 23 limiting his direct testimony.

10:25:56 24 MR. SHEASBY: I understand your instructions, Your
10:25:58 25 Honor, thank you.

10:25:59 1 MR. BITTNER: Thank you, Your Honor.

10:26:01 2 MR. MELSHEIMER: Thank you, Your Honor.

10:26:02 3 (Bench conference concluded.)

10:26:07 4 THE COURT: Let's proceed.

10:26:08 5 Q. (By Mr. Bittner) Mr. Wood, returning to Lines 2278 to
10:26:12 6 2280 of DTX-611, what is happening here on Line 2278?

10:26:17 7 A. So can I set the stage a little bit?

10:26:22 8 Q. Please do.

10:26:23 9 A. Okay. So software talks to other software by sending
10:26:28 10 messages back and forth. This is referring to -- 2278 to
10:26:34 11 2280 is referring to a message that the iPhone's camera has
10:26:39 12 sent to MiSnap. It's sending some captured output, it's
10:26:45 13 putting into the sampleBuffer, which is kind of like a box,
10:26:49 14 and it's sending that to MiSnap.

10:26:52 15 Q. Let me see if we can break that down a little bit.

10:27:05 16 Did I hear you correctly, did you say this first
10:27:12 17 line that starts with (void) captureOutput is a message?

10:27:18 18 A. It's part of the message, yes.

10:27:24 19 Q. Who is the message between?

10:27:25 20 A. It's between the iPhone camera's software and MiSnap.

10:27:31 21 Q. Mr. Wood, is this a one-way message or a two-way
10:27:44 22 message?

10:27:44 23 A. It's essentially a one-way message.

10:27:49 24 Q. How do you know that?

10:27:50 25 A. I know that because of the -- the void at the beginning

10:27:56 1 on Line 2278.

10:27:57 2 Q. What does this word "void" tell you about this being a
10:28:02 3 one-way or a two-way message?

10:28:06 4 A. Void means nothing, so when messages are sent back and
10:28:09 5 forth, you need to know what's in those messages. So the
10:28:14 6 camera is sending MiSnap a sample buffer with an image in
10:28:18 7 it, and MiSnap is sending void or nothing back, so it's no
10:28:25 8 information going back to the camera.

10:28:27 9 Q. Okay. So the iPhone camera is sending what to MiSnap?

10:28:30 10 A. Its captured output in a sample buffer.

10:28:34 11 Q. And what is MiSnap sending back?

10:28:41 12 A. Nothing.

10:28:41 13 Q. Void?

10:28:42 14 A. No information. Yeah, void.

10:28:45 15 Q. Now, Mr. Wood, who created these first three lines of
10:28:53 16 code?

10:28:53 17 A. These referred to the three lines of code that Apple
10:28:59 18 software developers wrote. And any app, including MiSnap,
10:29:03 19 if they want to receive these frames, they need to put
10:29:06 20 these three lines of code into their code.

10:29:08 21 Q. So why does Mitek have three lines of code that Apple
10:29:14 22 created in MiSnap?

10:29:15 23 A. Because MiSnap needs to -- actually, the camera has to
10:29:22 24 talk to MiSnap. And in order to do that, Apple has said
10:29:27 25 you need to have these three lines. Otherwise, it's not

10:29:31 1 going to know where to send those messages to.

10:29:33 2 Q. What about these three lines tells you that the Apple
10:29:38 3 camera is involved?

10:29:39 4 A. On 2278, there's AVCaptureOutput.

10:29:46 5 Q. What does AV stand for?

10:29:46 6 A. 2280, there's AVCaptureConnection. Sorry, I didn't
10:29:46 7 mean to cut you off.

10:29:50 8 Q. What does AV stand for?

10:29:51 9 A. AV stands for audio/visual. It's a prefix that Apple's
10:29:59 10 engineers use. It's part of their AV foundation, and it
10:30:02 11 refers to audio/visual software, including the camera.

10:30:08 12 Q. Mr. Wood, would it be accurate or inaccurate to say
10:30:12 13 that these three lines of code have no purpose here?

10:30:15 14 A. That would be inaccurate.

10:30:16 15 Q. Do you know what would happen if Mitek deleted these
10:30:23 16 three lines of code from this page?

10:30:26 17 A. If we deleted those, this code wouldn't run. And
10:30:30 18 technically, it wouldn't even run on a phone.

10:30:32 19 Q. Where does MiSnap start analyzing the image capture
10:30:44 20 output that has been placed in the sample buffer?

10:30:47 21 A. That's lower on the page.

10:30:50 22 MR. BITTNER: Mr. Barnes, can we scroll down?

10:30:52 23 Q. (By Mr. Bittner) Do you know what line it's on,
10:30:54 24 Mr. Wood?

10:30:54 25 A. 2323.

10:30:56 1 MR. BITTNER: Can we bring up Line 2323,

10:30:58 2 Mr. Barnes?

10:30:59 3 Q. (By Mr. Bittner) Mr. Wood, what is happening here in

10:31:10 4 Line 2323?

10:31:11 5 A. On this line, there's a bit called analyzeFrame with a

10:31:20 6 sampleBuffer. This is sending a message to some other

10:31:25 7 MiSnap code that's called analyzeFrame, and it's passing

10:31:28 8 that sampleBuffer, which had that image in it, to that

10:31:34 9 other MiSnap code.

10:31:35 10 Q. In this version of the code and all versions of the

10:31:37 11 code since March 2015, will the code capture a new image if

10:31:42 12 that analysis turns up a good image and MiSnap decides to

10:31:46 13 use it?

10:31:46 14 A. No, it will not.

10:31:54 15 MR. BITTNER: Mr. Barnes, can we go to the next

10:31:57 16 page and pull up Line 2357 now?

10:32:11 17 Q. (By Mr. Bittner) Now, Mr. Wood, would it be accurate

10:32:13 18 or inaccurate to say that this is where an image is being

10:32:16 19 captured by the camera?

10:32:17 20 A. That would be inaccurate.

10:32:19 21 Q. What is happening in Line 2357?

10:32:22 22 A. This is setting a variable to yes. It's saying the

10:32:28 23 capture session is over. And MiSnap is not going to

10:32:31 24 analyze any more frames.

10:32:34 25 Q. Is Line 2357 unique to auto capture?

10:32:37 1 A. No, it's not.

10:32:39 2 Q. How do you know that?

10:32:40 3 A. You have to scroll up. This code is indented. There's
10:32:48 4 some code above it. Yeah, 2341 to 2343.

10:32:53 5 Q. And is -- what do those lines tell you about the line
10:32:55 6 we just looked at, Line 2357?

10:32:58 7 A. It's saying that if any of these things are true, that
10:33:02 8 code down below is going to run. So 2341 is saying if
10:33:06 9 we're in a manual override mode, or 2342, if we're in the
10:33:12 10 manual capture mode, or three, if we're in auto capture
10:33:16 11 mode, if any of those are true, we're going to execute that
10:33:19 12 same line of code.

10:33:21 13 MR. BITTNER: Let's look now at Line 2374.

10:33:25 14 Mr. Barnes, can we blow that up? Right at the bottom
10:33:43 15 there.

10:33:46 16 Q. (By Mr. Bittner) Mr. Wood, would it be accurate or
10:33:48 17 inaccurate to say that Line 2374 is where the camera is
10:33:54 18 capturing an image?

10:33:55 19 A. That would be inaccurate.

10:33:56 20 Q. What is happening at Line 2374?

10:34:00 21 A. This is logging some of our UXP, our user experience,
10:34:06 22 and it's kind of like a stopwatch. It's saying the capture
10:34:10 23 session is over.

10:34:10 24 Q. Why do you track time for the capture session?

10:34:14 25 A. If we have to debug an issue, like a customer has an

10:34:19 1 issue, we can't go around to everyone and ask what they
10:34:22 2 were doing at that time, so we track a lot of different
10:34:25 3 events. We track when we show the tutorial screen to a
10:34:31 4 user, we track when they start up MiSnap, we track if
10:34:35 5 MiSnap couldn't find the document or if it was too dark in
10:34:38 6 the room or if it was just too dark on the screen. And we
10:34:43 7 use that to try and reconstruct what was happening, what
10:34:46 8 the user was seeing.

10:34:48 9 Q. Is what happens at Line 2374 unique to auto capture?

10:34:51 10 A. No, it's not.

10:34:55 11 Q. Do you track the same time for auto capture, manual
10:34:57 12 capture, and manual override?

10:35:01 13 A. Yes, we do.

10:35:03 14 MR. BITTNER: Okay. Let's go to, Mr. Barnes, now
10:35:05 15 Line 2389.

10:35:16 16 Q. (By Mr. Bittner) Looking at Line 2389, Mr. Wood, would
10:35:19 17 it be accurate or inaccurate to say that this is where an
10:35:22 18 image is captured by the camera?

10:35:24 19 A. That is inaccurate.

10:35:25 20 Q. What is happening in Line 2389?

10:35:28 21 A. In this line, this code is sending a message to some
10:35:32 22 other MiSnap code that's called

10:35:44 23 miSnapCaptureViewStartedAutoCapture:withRect.

10:35:46 24 Q. Okay. What does the part of the code called the
10:35:48 25 miSnapCaptureViewStartedAutoCapture, what does that do?

10:35:49 1 A. That will play a little sound. It will show an
10:35:53 2 animation on the screen. And in auto mode, it's going to
10:35:58 3 draw the border around where the check was.

10:36:02 4 Q. So miSnapCaptureViewStartedAutoCapture just plays an
10:36:09 5 animation?

10:36:10 6 A. Essentially, yes.

10:36:11 7 MR. BITTNER: Let's look at Lines 2479 to 2481
10:36:29 8 now.

10:36:34 9 Q. (By Mr. Bittner) And, Mr. Wood, would it be accurate
10:36:45 10 or inaccurate to say that what's -- that what's happening
10:36:47 11 in Lines 2479 to 2481 is where an image is being captured
10:36:53 12 with a camera?

10:36:54 13 A. That is inaccurate.

10:36:54 14 Q. What is happening here?

10:36:56 15 A. So here, the image that was already captured is being
10:37:02 16 compressed.

10:37:03 17 Q. What do you mean by compressed?

10:37:05 18 A. Compressed means it's making it take up less space.

10:37:10 19 It's encoding it as a JPEG, and JPEGs are used on the
10:37:15 20 Internet for millions, maybe billions of images because
10:37:20 21 they take up less space, so --

10:37:23 22 Q. Do you have -- do you have an example compression in
10:37:27 23 real life?

10:37:27 24 A. Yeah. You could think of it as like a space vacuum
10:37:33 25 bag. You put your comforter inside and then you suck out

10:37:38 1 all the air, and what you're left with takes up less space.
10:37:42 2 You don't have a new comforter, but it takes up less space.
10:37:47 3 Q. Now, I want to return to, Mr. Wood, the two ways of
10:38:05 4 auto capture we spoke about at the beginning of your
10:38:07 5 testimony.

10:38:07 6 DTX-611, which we just talked about, does that
10:38:10 7 operate using still video capture or video frame
10:38:13 8 processing?

10:38:13 9 A. That one uses the new way, the video frame processing.

10:38:17 10 Q. When did Mitek switch from still video capture to video
10:38:23 11 frame processing?

10:38:24 12 A. That change was finalized in September 2014.

10:38:31 13 Q. Have you seen code where both options, still video
10:38:35 14 capture and video frame processing, are shown side-by-side?

10:38:38 15 A. Yes, I have.

10:38:40 16 MR. BITTNER: Mr. Barnes, can we pull up DTX-11?
10:38:56 17 Now, Mr. Barnes, can we go to the bottom of 3565 and the
10:39:02 18 top of page 3566? Oh, no, he's got it. Okay.

10:39:14 19 Q. (By Mr. Bittner) Mr. Wood, what do we see here in
10:39:17 20 Lines 1496 to 1515?

10:39:22 21 A. This is describing -- 1496, it says allow video frames.
10:39:27 22 This is describing the new way, the video frame processing.

10:39:31 23 MR. BITTNER: Actually, Mr. Barnes, can we scroll
10:39:34 24 up to the very top of Page 3565 or the very top of Page
10:39:38 25 3566?

10:39:39 1 Q. (By Mr. Bittner) Mr. Wood, one question. What version
10:39:41 2 of MiSnap is this?

10:39:42 3 A. I can see in the middle here, it's MiSnap -- whoops --
10:39:47 4 MiSnap iOS 2.0.6, so it's for iPhones, Version 2.0.6.

10:39:57 5 Q. Okay. Now, let me turn to the first question again.
10:39:59 6 What is happening in Lines 1496 to 1515?

10:40:02 7 A. This is describing the video way -- the video frame
10:40:05 8 processing.

10:40:05 9 Q. What we just discussed in DTX-611?

10:40:08 10 A. Yes.

10:40:09 11 Q. And we see in Lines 1504 and 1506, two comments.

10:40:18 12 A. Uh-huh.

10:40:18 13 Q. What do those mean to you?

10:40:24 14 A. They're saying that we're going to send along the YUV
10:40:30 15 frame, which we know on 1506 is just the sample buffer
10:40:31 16 output, what the camera has already captured, instead of
10:40:35 17 capturing the photo quality image. So we're not going to
10:40:38 18 capture a new high resolution photo like we did with video
10:40:43 19 still capture.

10:40:43 20 Q. Okay. And we -- let me ask you this question. How do
10:40:46 21 you know that 1504 and 1506 are comments?

10:40:49 22 A. They start with this //, and that is a comment. It
10:40:58 23 means that the computer or the phone is going to ignore
10:41:00 24 them.

10:41:01 25 Q. Why do MiSnap developers put comments in the code?

10:41:04 1 A. It's a good practice. You can -- they would do that so
10:41:07 2 you could remember -- tell future developers or yourself
10:41:16 3 what that code is doing or maybe why it's doing that.
10:41:19 4 Q. Now, what does the computer itself do with the comment
10:41:23 5 as it's going through this code and trying to execute it?
10:41:25 6 A. It does nothing with it, it ignores it, and technically
10:41:34 7 the phone would never even see those comments.
10:41:35 8 Q. Going down lower in the code to Line 1517, we see the
10:41:45 9 word "else if."
10:41:47 10 A. Uh-huh.
10:41:47 11 Q. What does "else if" mean?
10:41:49 12 A. So "else if," self.photoOutput, if that second part is
10:41:57 13 true, that they have the "else if," then the code beneath
10:41:59 14 it is going to run. If it's not true, then it's not going
10:42:01 15 to run.
10:42:02 16 Q. Is "else if" a common instruction that source code
10:42:06 17 developers give to computers?
10:42:08 18 A. Yeah, it's common. You might have "if," "else if,"
10:42:14 19 "else." I could give you an analogy. It's like my son's
10:42:16 20 birthday is coming up this week. He's turning four. And
10:42:20 21 when I get home, my wife might give me a set of
10:42:23 22 instructions. She might say, if there's a sheet cake, buy
10:42:28 23 the sheet cake, else if they have cupcakes, get the
10:42:35 24 cupcakes, else buy cookies. So I'll come home with a sheet
10:42:40 25 cake or cupcakes or cookies, but not all three. That's

10:42:46 1 just too much sugar.

10:42:48 2 Q. What's going on under the "else if" in Lines 1519 to
10:42:54 3 1534?

10:42:54 4 A. That is -- it's sending a message to the camera. It's
10:43:01 5 calling this -- sending a message called capture still
10:43:07 6 image asynchronously from connection, so it's sending a
10:43:13 7 message to the camera to capture a new still image.

10:43:15 8 Q. And, in particular, you're looking at 1534; am I
10:43:18 9 correct?

10:43:19 10 A. Yeah, 1534.

10:43:20 11 Q. And, again, remind the jury when Mitek switched from
10:43:24 12 the first way of doing things that we saw with DTX-611 and
10:43:30 13 the top of this page -- when did Mitek make the switch to
10:43:35 14 the DTX-611 and top way of doing things that we discussed
10:43:39 15 earlier?

10:43:39 16 A. That was finalized in September 2014.

10:43:42 17 Q. And before September 2014, which way would Mitek
10:43:46 18 operate?

10:43:46 19 A. The old way, the first way, the video still capture.

10:43:52 20 Q. And, again, what was the main reason why Mitek switched
10:43:57 21 from video still capture to video frame processing?

10:44:00 22 A. There were two main reasons. One was the feedback
10:44:04 23 about the blurry images, so we had to try something new.

10:44:07 24 And the second reason was that the phones on the
10:44:11 25 camera are getting more powerful, and those images that

10:44:14 1 they were analyzing were a lot bigger. If you're familiar
10:44:17 2 with megapixels, they used to be less than half a
10:44:22 3 megapixel, and suddenly they were one megapixel or even two
10:44:25 4 megapixels, and we didn't need to capture a new high res
10:44:30 5 image. We had one that was good already.

10:44:32 6 Q. To your knowledge, was this change from the first way
10:44:35 7 to the second way related in any way to USAA?

10:44:38 8 A. No, it was not.

10:44:39 9 Q. Have you learned some Mitek documents after September
10:44:44 10 2014 and after this change that incorrectly describe how
10:44:48 11 MiSnap's auto capture works today?

10:44:50 12 A. Yes, I have.

10:44:54 13 MR. BITTNER: Let's look at PX-92.

10:44:57 14 Q. (By Mr. Bittner) Mr. Wood, what is PX-92?

10:45:01 15 A. PX-92 is a developer's guide from MiSnap 3.1.

10:45:09 16 Q. What do you mean by developer's guide?

10:45:12 17 A. A developer's guide is a guide that we give to our
10:45:17 18 customers' developers, so the developers at banks, for
10:45:21 19 example, so that they know how to use MiSnap, how to
10:45:26 20 customize it, and how to receive the message -- the image
10:45:32 21 that MiSnap is going to give back to them.

10:45:35 22 Q. Okay.

10:45:36 23 MR. BITTNER: I want to look at Page 33 of this
10:45:38 24 document, Mr. Barnes.

10:45:41 25 Q. (By Mr. Bittner) And right there in the middle we see

10:45:43 1 the language: Once all conditions are met, MiSnap will
10:45:46 2 automatically snap a photo. Do you see that, Mr. Wood?

10:45:49 3 A. Yes, I do.

10:45:50 4 Q. Is that an accurate description of how the code
10:45:52 5 operates today?

10:45:53 6 A. No, it's not.

10:45:54 7 Q. Was this language accurate at some point?

10:45:57 8 A. Yes, it was.

10:45:59 9 Q. When?

10:46:00 10 A. Prior to September 2014, it was accurate.

10:46:04 11 Q. What version was Mitek using prior to September 2014?

10:46:10 12 A. That was the first way, the video still capture.

10:46:13 13 Q. Are there other documents where Mitek failed to update
10:46:17 14 its language after this change was made?

10:46:19 15 A. There was a bunch of them, yeah.

10:46:22 16 MR. BITTNER: Let's look at PX-376.

10:46:28 17 Q. (By Mr. Bittner) Mr. Wood, what is PX-376?

10:46:31 18 A. This is a programmer's guide from Mitek Version 2.3.4.

10:46:39 19 Q. What do you mean by programmer's guide?

10:46:42 20 A. A programmer's guide is just like a developer's guide,
10:46:48 21 it's for the programmers at the bank.

10:46:50 22 MR. BITTNER: Let's look at Page 5 of this
10:46:52 23 document and right there in the middle under 1.1, second
10:47:00 24 bullet point.

10:47:02 25 Q. (By Mr. Bittner) We see: Until a suitable image is

10:47:04 1 detected at which point it automatically captures.

10:47:06 2 Do you see that, sir?

10:47:07 3 A. Yes, I do.

10:47:08 4 Q. Is this an accurate description of how the code
10:47:11 5 operates today?

10:47:11 6 A. No, it's not.

10:47:13 7 Q. Were these errors in the developer's guides and
10:47:19 8 programmer's guides ever brought to Mitek's attention?

10:47:23 9 A. No, they weren't.

10:47:24 10 Q. Did you personally hear any complaints about this?

10:47:27 11 A. No, I did not.

10:47:28 12 Q. Would you expect to hear such complaints?

10:47:30 13 A. No, I wouldn't.

10:47:31 14 Q. Why not?

10:47:32 15 A. Because a programmer at a bank needs to know how to use
10:47:38 16 MiSnap, how to turn it on, how to customize it, and how to
10:47:43 17 get the image back from MiSnap. It -- they don't need to
10:47:48 18 know how MiSnap internally works.

10:47:51 19 It's kind of like if you have a printer, you just
10:47:56 20 need to know how to turn it on and how to send something to
10:47:59 21 be printed and how to pick up your paper when you're done,
10:48:01 22 but you don't need to know how the printer is -- how the
10:48:05 23 gears are turning and feeding paper in and how it's
10:48:08 24 shooting ink onto the page. You don't need to know how to
10:48:11 25 do that stuff. And it's the same thing with the developers

10:48:13 1 at banks. They don't need to know that.

10:48:16 2 THE COURT: Counsel, approach the bench, please.

10:48:24 3 MR. BITTNER: Yes, Your Honor.

10:48:28 4 (Bench Conference.)

10:48:28 5 THE COURT: Mr. Bittner, this witness just gave
10:48:31 6 opinion testimony about what people at banks need to know.
10:48:34 7 That's well outside of his personal knowledge. And it
10:48:40 8 appears to me to cross squarely over the line that I
10:48:42 9 instructed you about this witness not giving opinion
10:48:46 10 testimony. This is a computer programmer for Mitek. How
10:48:50 11 he has personal knowledge of what people who work in banks
10:48:54 12 need to know, I don't understand.

10:48:56 13 MR. BITTNER: I think he was just testifying as to
10:48:59 14 why this -- why in his knowledge this was never brought to
10:49:01 15 Mitek's attention. It's not important for anyone -- and I
10:49:11 16 can -- I can ask him to clarify that he's not offering an
10:49:14 17 opinion about what banks know or what banks do.

10:49:16 18 THE COURT: Well, it sounds like a clear inquiry
10:49:19 19 into an area that he would have no personal knowledge of
10:49:22 20 and is offering an opinion about.

10:49:24 21 MR. BITTNER: I'll clarify that, and I'm moving
10:49:26 22 on. I'm just going to ask him when he found out about
10:49:28 23 it --

10:49:29 24 THE COURT: Clarify it and move on.

10:49:33 25 MR. MELSHEIMER: Thank you, Your Honor.

10:49:34 1 (Bench conference concluded.)

10:49:34 2 THE COURT: Let's proceed.

10:49:40 3 Q. (By Mr. Bittner) To be clear, Mr. Wood, you don't
10:49:42 4 know -- you don't have any personal knowledge and are not
10:49:45 5 expressing any opinions about what banks do or don't know,
10:49:48 6 correct?

10:49:48 7 A. No, it's just my own opinion.

10:49:53 8 Q. When were -- strike that. When was --

10:49:57 9 MR. SHEASBY: Your Honor, if it's opinion
10:50:01 10 testimony, then I move to strike it.

10:50:03 11 THE COURT: Well, counsel, as I made clear, this
10:50:08 12 witness is not here to give opinions, his or anybody
10:50:12 13 else's. He's here to talk about what he knows personally.
10:50:15 14 You want to attempt to clarify this testimony one more
10:50:18 15 time, Mr. Bittner?

10:50:21 16 MR. BITTNER: Happy to do so, Your Honor.

10:50:23 17 Q. (By Mr. Bittner) Mr. Wood, you don't have any personal
10:50:26 18 knowledge of what banks do know or don't know, correct?

10:50:28 19 A. I don't have personal knowledge of what they do. I've
10:50:30 20 heard feedback from other people at Mitek --

10:50:32 21 Q. When was this -- when was Mitek's failure --

10:50:32 22 THE COURT: Just a minute, counsel.

10:50:34 23 MR. SHEASBY: Your Honor, we renew objection, now
10:50:36 24 it's a hearsay objection.

10:50:42 25 THE COURT: Ladies and gentlemen, I'm going to

10:50:44 1 instruct you to disregard this witness's testimony about
10:50:47 2 what he believes people at banks need to know to implement
10:50:51 3 this product.

10:50:52 4 Let's move on.

10:50:54 5 MR. BITTNER: Yes, Your Honor.

10:50:55 6 Q. (By Mr. Bittner) Mr. Wood, when was the failure to
10:51:00 7 update Mitek's developer and programmer's guides brought to
10:51:04 8 your attention for the first time?

10:51:07 9 A. That was during my deposition.

10:51:09 10 Q. Is Mitek in the process of updating these documents
10:51:12 11 today?

10:51:13 12 A. Yes, we are.

10:51:15 13 Q. What is the most accurate way to know how MiSnap's
10:51:20 14 computer software works?

10:51:22 15 A. You have to look at the source code. The source code
10:51:25 16 is what the phone actually uses.

10:51:30 17 Q. Now we've talked about Mitek's source code. I just
10:51:34 18 want to talk about Mitek in general.

10:51:36 19 Mr. Wood, who is or what is Mitek?

10:51:39 20 A. Mitek is a company that does a variety of products.

10:51:45 21 Q. Where is Mitek based?

10:51:47 22 MR. SHEASBY: Your Honor, objection as to
10:51:49 23 relevance.

10:51:52 24 MR. BITTNER: Your Honor --

10:51:53 25 THE COURT: Overruled.

10:51:55 1 MR. BITTNER: Thank you.

10:51:56 2 Q. (By Mr. Bittner) Where is Mitek based?

10:51:58 3 A. Mitek is based in San Diego, California.

10:52:01 4 Q. Do you know how many employees Mitek has,
10:52:04 5 approximately?

10:52:04 6 A. Over 500. We've been growing.

10:52:07 7 Q. And do you know how many customers all tolled Mitek
10:52:13 8 has?

10:52:16 9 MR. SHEASBY: Your Honor, objection, relevance.

10:52:17 10 THE COURT: I've given you some latitude and
10:52:20 11 you've exceeded it. I'm going to sustain that objection.

10:52:24 12 MR. BITTNER: Yes, Your Honor.

10:52:25 13 Q. (By Mr. Bittner) Mr. Wood, we've talked about a few
10:52:25 14 lines of DTX-11 today which was Version 2.0.6. But I
10:52:25 15 actually have all of DTX-11 printed out here. Mr. Wood,
10:52:25 16 what is -- I'm going to set it right here. This is really
10:52:37 17 heavy. Mr. Wood, what is DTX-11?

10:52:38 18 A. That is a small part of the source code in this case.

10:52:44 19 Q. Do you know how many pages of code are here in DTX-11?

10:52:49 20 A. I've been told it's 4500.

10:52:53 21 Q. If this is only a part of the code that was made
10:52:55 22 available, do you know how many pages of code was made
10:52:59 23 available in this case?

10:53:00 24 A. Yeah, there's a lot of pages for MiSnap and all the
10:53:08 25 algorithms they run, we had Android and iOS, we had over a

10:53:13 1 dozen versions. I'd estimate over a million pages of code.

10:53:22 2 Q. Were you asked about MiSnap code during your
10:53:25 3 deposition?

10:53:25 4 A. Yes, I was.

10:53:26 5 Q. Did you prepare for your deposition?

10:53:28 6 A. Yes, I did.

10:53:29 7 Q. What did you do to prepare for your deposition?

10:53:31 8 A. I reviewed source code from all those different
10:53:34 9 versions for Android and iOS to try and figure out how
10:53:41 10 MiSnap worked, how all the algorithms worked, how it had
10:53:44 11 changed over time, it was a lot.

10:53:47 12 Q. How much time did you spend preparing for your
10:53:52 13 deposition?

10:53:52 14 A. Including finding all that source code and reviewing
10:53:56 15 it, probably 150 hours, maybe.

10:53:59 16 Q. Was it possible for you to memorize every line of code
10:54:02 17 before your deposition?

10:54:03 18 A. No.

10:54:06 19 Q. Had you specifically reviewed DTX-11 before it came up
10:54:09 20 in your deposition?

10:54:11 21 A. DTX-611 or --

10:54:13 22 Q. 611, sorry, 611?

10:54:15 23 A. No, I had not.

10:54:16 24 Q. Why not?

10:54:17 25 A. I was reviewing -- that was for DevApp, and I was

10:54:21 1 reviewing the source code that our customers would have
10:54:24 2 used.

10:54:24 3 Q. Have you had a chance to review DTX-611 in greater
10:54:28 4 detail since your deposition?

10:54:30 5 A. Yes, I have.

10:54:31 6 Q. Once more, about how many pages of code did Mitek make
10:54:34 7 available in this case?

10:54:35 8 A. Over a million pages of code.

10:54:38 9 Q. Mr. Wood, based on your personal knowledge, did Mitek
10:54:41 10 take even a single line of code from USAA?

10:54:44 11 A. No, we did not.

10:54:46 12 MR. BITTNER: Pass the witness.

10:54:47 13 THE COURT: Cross-examination.

10:55:03 14 Mr. Sheasby, are you going to use that easel
10:55:06 15 during your cross-examination?

10:55:08 16 MR. SHEASBY: Just briefly, Your Honor, and then
10:55:09 17 I'll move it back.

10:55:10 18 THE COURT: All right. Let's proceed.

10:55:11 19 MR. SHEASBY: May it please the Court.

10:55:11 20 CROSS-EXAMINATION

10:55:14 21 BY MR. SHEASBY:

10:55:14 22 Q. Good -- good morning, Mr. Wood. We met before.

10:55:19 23 A. Good morning.

10:55:19 24 Q. I took your deposition, correct?

10:55:21 25 A. That's correct, yeah.

10:55:22 1 Q. Now, in your testimony to the ladies and gentlemen of
10:55:24 2 the jury, you indicated that you're an employee of Mitek,
10:55:27 3 fair?

10:55:27 4 A. Yes, that's fair.

10:55:28 5 Q. Before your deposition, you were -- you met with the
10:55:31 6 Wells Fargo's lawyers who are representing Wells Fargo in
10:55:33 7 this matter multiple times, correct?

10:55:37 8 A. Yes, I met with them.

10:55:38 9 Q. Multiple times?

10:55:39 10 A. Yes.

10:55:40 11 Q. And before your testimony today, you met with Wells
10:55:45 12 Fargo's lawyers multiple times, correct?

10:55:47 13 A. Yes, that's correct.

10:55:48 14 Q. They prepared you for your testimony, correct?

10:55:50 15 A. I wouldn't say it that way. We prepared.

10:55:55 16 Q. You and Wells Fargo's lawyers jointly prepared for your
10:55:58 17 testimony, fair?

10:55:58 18 A. Yeah, I'd say that's fair.

10:56:02 19 Q. Now, sir, you're not an expert in this matter, correct?

10:56:07 20 A. No, I'm not.

10:56:08 21 Q. You didn't discuss Mr. Bueche's and USAA's patents at
10:56:15 22 all during your deposition in this matter, correct?

10:56:18 23 A. No, we did not.

10:56:21 24 Q. You didn't discuss it with -- with your counsel today;
10:56:24 25 is that correct?

10:56:24 1 A. I did not.

10:56:25 2 Q. You didn't talk about what concepts in the patent
10:56:27 3 that's at issue in this case mean in your testimony,
10:56:30 4 correct?

10:56:30 5 A. No, I did not.

10:56:31 6 Q. Now, looking at this demonstrative, you talked about
10:56:44 7 two different ways of doing auto capture, that was your
10:56:46 8 testimony to the jury, correct?

10:56:47 9 A. Yes, that's right.

10:56:48 10 Q. There's something called a video still capture mode; is
10:56:53 11 that correct?

10:56:53 12 A. Yes, that's correct.

10:56:54 13 Q. That's the old mode. Wells Fargo doesn't use that
10:56:58 14 mode, correct?

10:56:58 15 A. Not anymore, I agree.

10:57:00 16 Q. There's the mode that's at issue in this case, which is
10:57:03 17 the video frame processing mode, correct?

10:57:07 18 A. I imagine so.

10:57:09 19 Q. That's the mode as far as you know that Wells Fargo
10:57:13 20 currently uses, correct?

10:57:13 21 A. That's the one they're using today, yes, that's right.

10:57:15 22 Q. And in the video frame processing mode, the automatic
10:57:24 23 capture occurs when good image is detected, correct?

10:57:27 24 A. No, I disagree with that statement.

10:57:28 25 Q. Okay. So why don't we turn to the binder that your

10:57:31 1 counsel brought up to you, which is DTX- -- in that binder
10:57:35 2 is a document called DTX-0381?

10:57:38 3 A. Sorry, which binder?

10:57:41 4 Q. It's the binder you brought up with you for your
10:57:43 5 testimony.

10:57:43 6 A. Okay.

10:57:43 7 Q. It says Direct of Andrew Wood. It's a small binder.
10:57:49 8 This is what your counsel handed you, correct?

10:57:51 9 A. I think it was already here. I'm not sure.

10:57:54 10 Q. And to be clear, this is a Mitek document, correct?

10:58:00 11 A. Yes, yes, it is.

10:58:02 12 Q. So why don't we go ahead and pull up DTX-381?

10:58:10 13 And why don't we go ahead and turn to Page 4 of
10:58:18 14 that document? And on Page 4 of that document, do you see
10:58:26 15 the box at the top, it says video processing -- video frame
10:58:29 16 processing, correct?

10:58:30 17 A. Yes.

10:58:30 18 Q. And this is a Mitek document, and video frame
10:58:34 19 processing is the -- the form of operation that's at issue
10:58:39 20 in this court today, as far as you understand it; isn't
10:58:42 21 that correct, Mr. Wood?

10:58:44 22 A. Yes, that's right.

10:58:45 23 Q. And the document says: Automatic capture when good
10:58:48 24 image is detected; do you see that, sir?

10:58:50 25 A. Yes.

10:58:51 1 Q. And you disagree with that, correct, sir?

10:58:54 2 A. Yes.

10:58:54 3 Q. Now, we -- you spoke about a number of other manuals
10:59:31 4 that have been produced by Mitek, correct, in your direct?

10:59:37 5 A. Yes, I did.

10:59:38 6 Q. And you said those manuals were inaccurate after
10:59:45 7 September of 2014, correct?

10:59:48 8 A. I said the ones that were shown to me were inaccurate.

10:59:52 9 Q. They became inaccurate after September 2014, correct?

10:59:55 10 A. I don't know if the entire manuals, but those sections
11:00:04 11 I talked about were incorrect.

11:00:06 12 Q. As of September '14?

11:00:09 13 A. Yes, 2014.

11:00:10 14 Q. September 2014. So one of the manuals you showed the
11:00:13 15 jury was PX-0092; is that correct?

11:00:16 16 A. Yes, that's correct.

11:00:21 17 MR. SHEASBY: So why don't we pull that one up?

11:00:24 18 Q. (By Mr. Sheasby) And if we turn to the second page of
11:00:27 19 that document, that manual is dated 24 June 2016, correct?

11:00:36 20 A. Yes, that's correct.

11:00:37 21 Q. That's after September 2014, correct?

11:00:40 22 A. Yes, it is.

11:00:40 23 Q. And if you turn to Page 4 of that document, it says:
11:00:49 24 If the document is in focus, 4 corners are visible, it is
11:00:54 25 not overly slanted or rotated, and the document fills at

11:00:58 1 least the minimum area required of the view finder. Those
11:01:01 2 are examples of monitoring criteria, fair?

11:01:05 3 A. Yes, that's fair.

11:01:06 4 Q. It goes on to say, quote, then MiSnap will capture and
11:01:10 5 return an image.

11:01:11 6 Correct?

11:01:11 7 A. Yes, it says that.

11:01:13 8 Q. And that was the document that was produced after
11:01:15 9 September 2014, correct?

11:01:16 10 A. Yes, that is correct.

11:01:17 11 Q. That was produced when the -- the video frame mode was
11:01:22 12 solely in use, correct?

11:01:23 13 A. Yes, I agree with that.

11:01:33 14 Q. Okay. And then let's go to PX-0376. This is another
11:01:36 15 document that you showed the ladies and gentlemen of the
11:01:37 16 jury, correct?

11:01:37 17 A. Yes, that's correct.

11:01:38 18 Q. You told them it was inaccurate as of September 2014,
11:01:43 19 correct?

11:01:43 20 A. Can you repeat the question?

11:01:47 21 Q. You told them that this manual was inaccurate, correct?

11:01:49 22 A. Inaccurate? Those statements in it were inaccurate.

11:01:52 23 Q. And that's because everything changed in September of
11:01:54 24 2014, correct?

11:01:55 25 A. In the code it changed, yes.

11:02:00 1 Q. Yes. And this manual was dated November, 2014,
11:02:05 2 correct?

11:02:05 3 A. Yes.

11:02:06 4 Q. And that's after the code had changed, correct?

11:02:10 5 A. Yes, it is.

11:02:11 6 Q. And if we turn to Page 376.5 of that document, it
11:02:17 7 says --

11:02:17 8 MR. SHEASBY: No, let's go to Section 1.1,
11:02:19 9 Mr. Huynh.

11:02:20 10 Q. (By Mr. Sheasby) It says: Real-time feedback to the
11:02:24 11 end user until a suitable image is detected at which point
11:02:28 12 it automatically captures and returns the image for
11:02:30 13 processing.

11:02:31 14 Correct?

11:02:31 15 A. Yes, the document says that.

11:02:33 16 Q. It's describing capture after analysis of the image,
11:02:37 17 correct?

11:02:37 18 A. Yes, that's fair.

11:02:38 19 Q. That's after September 2014, correct?

11:02:41 20 A. Yes, that's correct.

11:02:42 21 Q. And that's using the new video frame processing, the
11:02:44 22 method that's at issue in this case, correct?

11:02:46 23 A. The source is, yes.

11:02:48 24 Q. And Mitek's manual is describing that as capture after
11:02:51 25 analysis, correct?

11:02:52 1 A. The manual is saying that, yes.

11:02:57 2 Q. The answer to my question is yes?

11:02:59 3 A. Yes.

11:03:00 4 Q. Now, you said that Mitek now knows -- well, you said
11:03:16 5 the manuals are -- are mistaken, and Mitek knows they're
11:03:19 6 mistaken, and they're trying to correct those mistakes,
11:03:22 7 correct?

11:03:22 8 A. Yes, recent -- yes, we started doing that recently.

11:03:32 9 Q. Okay. So why don't we turn to Tab 23 in your binder?

11:03:50 10 A. I don't understand Tab 23.

11:03:51 11 Q. So there's three big binders next to you. Look to your
11:03:55 12 left. Right there.

11:03:58 13 A. Okay.

11:03:58 14 Q. And in those, there'll be a tab called 23. By the way,
11:04:18 15 when I'm doing that, your deposition was taken on July
11:04:21 16 17th, 2019, correct?

11:04:23 17 A. That sounds correct.

11:04:25 18 Q. Would you accept my representation on that?

11:04:27 19 A. Sure, yeah.

11:04:28 20 Q. Thank you. So you're turning to Tab 21 [sic]?

11:04:37 21 MR. SHEASBY: Why don't we go ahead and bring that
11:04:39 22 up on the screen. I believe that's iX-0037?

11:04:49 23 Q. (By Mr. Sheasby) So this is a MiSnap for Android SDK
11:04:54 24 3.5.x. Do you see that?

11:04:56 25 A. Yes, I do.

11:04:57 1 Q. And why don't we turn to Page 36 of this document.

11:05:19 2 MR. BITTNER: Your Honor, may we approach?

11:05:21 3 THE COURT: Approach the bench.

11:05:28 4 (Bench conference.)

11:05:29 5 MR. BITTNER: I just want to know is this in
11:05:32 6 evidence. It's been pre-admitted?

11:05:34 7 MR. SHEASBY: It has not.

11:05:35 8 MR. BITTNER: Well, the, I don't know for what
11:05:37 9 purpose it's being shown. If it's for impeachment --

11:05:38 10 MR. SHEASBY: It's for impeachment.

11:05:42 11 MR. BITTNER: Well, statement -- is he going to
11:05:43 12 develop something he's going to impeach him with?

11:05:45 13 THE COURT: You're using this to potentially
11:05:47 14 impeach this witness?

11:05:48 15 MR. SHEASBY: Yes, Your Honor.

11:05:53 16 MR. BITTNER: Yeah, no foundation for impeachment.

11:05:57 17 THE COURT: You're certainly entitled to use
11:05:59 18 something that's not pre-admitted for impeachment, but you
11:06:01 19 are going to need to show a prior inconsistency.

11:06:04 20 MR. SHEASBY: Okay. I'm happy to proceed that
11:06:06 21 way, Your Honor.

11:06:06 22 THE COURT: All right.

11:06:06 23 (Bench conference concluded.)

11:06:19 24 THE COURT: Let's proceed.

11:06:35 25 MR. SHEASBY: Just give me one moment, Your Honor.

11:06:43 1 Q. (By Mr. Sheasby) If you can turn to Tab 27 -- Tab 27
11:06:50 2 in your binder, Mr. Wood.

11:07:21 3 A. You say 27?

11:07:22 4 Q. I did.

11:07:23 5 A. Okay.

11:07:24 6 Q. Do you recognize Tab 27 in your binder, Mr. Wood?

11:07:28 7 A. Yes, I do.

11:07:41 8 Q. So if you turn to Page 6 of that binder, you would
11:07:52 9 agree that MiSnap adapts to the capabilities of the
11:08:00 10 device -- using the video stream capability of the device
11:08:02 11 to automatically capture images. Key quality conditions
11:08:05 12 are analyzed first at the device level and measured against
11:08:10 13 expected thresholds to ensure optimal images are captured
11:08:15 14 before being sent to the mobile imaging server for further
11:08:17 15 processing.

11:08:18 16 That's how the MiSnap system works, correct?

11:08:25 17 A. Not entirely, no.

11:08:28 18 Q. Do you agree or disagree with that statement?

11:08:30 19 A. It's hard to say. It's -- analyze first to ensure
11:08:48 20 optimal messages are captured. It's very high level.
11:09:04 21 Yeah, in -- in general, it seems to describe MiSnap.

11:09:09 22 Q. Okay. So -- so what -- you agree that that -- what I
11:09:14 23 just showed you is an accurate description of MiSnap's
11:09:17 24 system, correct?

11:09:18 25 A. Let me read it again, please.

11:09:21 1 I disagree about the order of the things on the
11:09:47 2 page, but in general, it's somewhat correct.

11:09:50 3 Q. Well, MiSnap provides real-time feedback to the end
11:09:55 4 user until a suitable image is detected at which point it
11:10:05 5 automatically captures and returns the image processing,
11:10:07 6 correct?

11:10:07 7 A. You said: And then it captures image. No, that's not
11:10:12 8 correct.

11:10:13 9 MR. SHEASBY: So I'd now like to publish iX-0038.

11:10:23 10 Q. (By Mr. Sheasby) So this is iX-0038. This is MiSnap
11:10:26 11 for Android SDK 3.6.x and 3.7.x. you were an Android
11:10:34 12 developer, if I remember correctly, Mr. Wood?

11:10:36 13 A. Yes, that's correct.

11:10:38 14 MR. SHEASBY: And let's turn to Page 6 of that
11:10:40 15 document.

11:10:40 16 Q. (By Mr. Sheasby) And it says: Automatic capture and
11:10:46 17 integrated analysis. And it describes the Mitek system as
11:10:51 18 MiSnap provides real-time feedback to the end user until a
11:10:54 19 suitable image is detected at which point it automatically
11:10:59 20 captures and returns the image for processing, correct?

11:11:02 21 A. Yes, that's what the document says.

11:11:07 22 Q. And that's totally incorrect under your sworn
11:11:11 23 testimony, correct?

11:11:11 24 A. For the source code, yes, it's incorrect.

11:11:13 25 Q. So whoever authorized or approved this manual was

11:11:19 1 mistaken, fair?

11:11:20 2 A. I don't think that's a fair statement.

11:11:26 3 Q. So whoever wrote this was accurate?

11:11:28 4 A. It may have been accurate. It depends on when it was
11:11:35 5 written.

11:11:35 6 Q. Whoever modified this document was -- were they doing
11:11:38 7 it in a way that was accurate or inaccurate?

11:11:40 8 A. If they changed this part, and I don't know, it would
11:11:46 9 be inaccurate.

11:11:50 10 Q. Now, let's turn back to the first page of this
11:11:53 11 document. This is the MiSnap for Android SDK 3.6.x and
11:12:02 12 3.7.x, correct?

11:12:04 13 A. Yes, I agree.

11:12:04 14 Q. Sir, you were the last person to modify this document;
11:12:04 15 isn't that correct?

11:12:08 16 A. No, I was not.

11:12:09 17 Q. Okay.

11:12:10 18 MR. SHEASBY: Why don't we turn to iX-0052? And
11:12:18 19 why don't we put that on the screen. And why don't we pull
11:12:22 20 up MiSnap for Android SDK 3.6.x and 3.7.x?

11:12:28 21 A. Uh-huh, that's fine.

11:12:29 22 MR. SHEASBY: And then why don't we also pull up
11:12:32 23 the modified part of the column, Mr. Wood [sic]?

11:12:40 24 Q. (By Mr. Sheasby) So we have just been reviewing the
11:12:43 25 last version of MiSnap for Android SDK 3.6.x and 3 .7.x,

11:12:51 1 correct?

11:12:51 2 A. That's correct.

11:12:52 3 Q. You testified under oath that you were not the last
11:12:56 4 person to modify, correct? That's what you told me.

11:12:58 5 A. I was the last one -- not the last one to modify the
11:13:00 6 document, yes.

11:13:01 7 Q. And on this document that I just showed you, iX-0032,
11:13:06 8 it says modified by you on March 13th, 2019, correct?

11:13:09 9 A. That's not what it's saying. That's incorrect.

11:13:13 10 Q. Sir --

11:13:14 11 MR. SHEASBY: Your Honor, can you ask him to
11:13:16 12 answer the question directly, please?

11:13:18 13 THE COURT: He did give you a direct answer,
11:13:22 14 Mr. Sheasby. You can restate your question or ask another
11:13:26 15 one.

11:13:26 16 MR. SHEASBY: I'm happy to do that, Your Honor.

11:13:27 17 Q. (By Mr. Sheasby) Mr. Wood, on this document, it lists
11:13:30 18 you as the modifier of the MiSnap for Android SDK 3.6.x and
11:13:38 19 3.7.x as of March 13, 2019, correct?

11:13:42 20 A. I disagree with that statement.

11:13:54 21 Q. Okay. Now, you said -- well, let's turn to another
11:14:20 22 document in your binder. Why don't we look at -- why don't
11:15:04 23 we look at iX -- Tab 31 in your binder, which is iX0040?

11:15:22 24 A. Could you repeat the tab, please?

11:15:25 25 Q. Tab 31.

11:15:27 1 A. That's different.

11:15:35 2 MR. SHEASBY: Actually let's take that down. I've
11:15:39 3 changed my mind. I want to go to Tab 34 in your binder.

11:16:09 4 So why don't we pull up that document, it's
11:16:15 5 iX0045.

11:16:16 6 MR. BITTNER: Your Honor, may we approach?

11:16:17 7 THE COURT: You may approach.

11:16:22 8 (Bench conference.)

11:16:28 9 MR. BITTNER: Again, Your Honor, I don't think
11:16:30 10 this has been pre-admitted. If he's going to impeach him
11:16:32 11 with this, he needs to first lay the foundation before
11:16:35 12 publishing it to the jury.

11:16:37 13 THE COURT: Is this a pre-admitted document?

11:16:39 14 MR. SHEASBY: I'm about to lay the foundation,
11:16:41 15 Your Honor.

11:16:41 16 THE COURT: All right. Lay the foundation.

11:16:43 17 (Bench conference concluded.)

11:16:51 18 THE COURT: Let's proceed.

11:16:53 19 Q. (By Mr. Sheasby) Now, for the MiSnap iOS, which is the
11:16:59 20 Apple version 3.6 and 3.7.x, MiSnap provides real-time
11:17:05 21 feedback to the end user until a suitable image is detected
11:17:10 22 at which point it automatically captures and returns the
11:17:13 23 image for processing, correct?

11:17:16 24 A. No, that's not correct.

11:17:18 25 Q. Okay.

11:17:19 1 MR. SHEASBY: So why don't we pull up on the
11:17:23 2 screen, Mr. Huynh, iX0045.

11:17:31 3 Q. (By Mr. Sheasby) This is the MiSnap for iOS 3.6 and
11:17:36 4 3.7.x and it's the SDK, it says SDK, right?

11:17:40 5 A. This is not the SDK.

11:17:41 6 Q. It says SDK, correct, sir?

11:17:43 7 A. This is a guide.

11:17:43 8 Q. For SDK, correct, sir?

11:17:45 9 A. That's correct.

11:17:45 10 Q. And you told the ladies and gentlemen of the jury that
11:17:48 11 it's the SDK that -- that directs when the code said SDK,
11:17:53 12 that was the actual code, correct?

11:17:55 13 A. I said that, but not about the docs.

11:18:00 14 Q. For the code, correct?

11:18:01 15 A. I said the code would say MiSnap SDK.

11:18:06 16 Q. If it was the official code, correct?

11:18:08 17 A. Yes.

11:18:09 18 Q. And this is the manual for MiSnap SDK 3.6.x and 3.7.x,
11:18:18 19 correct?

11:18:18 20 A. That's correct.

11:18:18 21 Q. And if you turn to Page 5 of that document, in the
11:18:34 22 second col -- the second paragraph under automatic capture
11:18:37 23 and integrated image analysis, it says: MiSnap provides
11:18:43 24 real-time feedback to the end user until a suitable image
11:18:46 25 is detected at which point it automatically captures and

11:18:50 1 returns the imaging for processing. Correct?

11:18:55 2 A. The document says that, correct.

11:18:59 3 Q. And it's your testimony that that is wrong, correct?

11:19:03 4 A. That's correct.

11:19:04 5 Q. And you realized it was wrong after I took your

11:19:07 6 deposition, correct?

11:19:09 7 A. Yes, that's correct.

11:19:10 8 Q. And you have made extreme efforts to -- to -- to

11:19:15 9 address this incorrect problem in the document, correct?

11:19:21 10 A. I would disagree with that.

11:19:23 11 Q. Oh, you haven't made efforts to address the

11:19:26 12 incorrectness of these documents?

11:19:28 13 A. We haven't made extreme efforts to. We have made

11:19:30 14 efforts.

11:19:30 15 Q. You have made efforts to address the incorrectness of

11:19:34 16 these documents, correct?

11:19:34 17 A. We started to, that's correct.

11:19:35 18 Q. Now, you modified this document on September 3rd, 2019,

11:19:44 19 correct?

11:19:44 20 A. I did not modify this document.

11:19:48 21 Q. September 3rd, 2019 was after your deposition was

11:19:54 22 taken, correct?

11:19:54 23 A. Yes, that's correct.

11:20:03 24 Q. Why don't we turn to Tab 23 in your binder?

11:20:07 25 MR. SHEASBY: Which is ix0053, Mr. Huynh.

11:20:11 1 Q. (By Mr. Sheasby) So this is the MiSnap for iOS

11:20:13 2 documentation, correct?

11:20:13 3 A. What tab, I'm sorry?

11:20:17 4 Q. Tab 23.

11:20:20 5 A. It's at the very end. Okay.

11:20:33 6 Q. And we were looking at the MiSnap iOS SDK for 3.6.x and

11:20:41 7 3.7.x, correct?

11:20:43 8 A. Yes, I believe so.

11:20:44 9 Q. And you said that document was wrong, correct?

11:20:46 10 A. Yes, I did.

11:20:48 11 Q. You said you didn't modify the document, correct?

11:20:52 12 A. That's correct.

11:20:53 13 Q. And on this document, iX00 -- on this document, which

11:20:59 14 is iX0053, under modified, it lists your name September

11:21:05 15 3rd, 2019, correct?

11:21:06 16 A. It says modified, yes.

11:21:07 17 Q. And it lists your name, correct?

11:21:09 18 A. Yes, it does.

11:21:09 19 Q. And it lists the date of September 13th, 2019, correct?

11:21:14 20 A. Yes, it does.

11:21:15 21 Q. Now, you showed the ladies and gentlemen of the jury

11:21:38 22 source code at DTX-611, correct?

11:21:43 23 MR. SHEASBY: And let's pull that up, Mr. Huynh.

11:21:46 24 Q. (By Mr. Sheasby) Now, this is iOS source code that

11:21:50 25 you're walking the jury through, correct?

11:21:52 1 A. Yes, that's correct.

11:21:53 2 Q. You didn't write this code, correct, sir?

11:21:55 3 A. I did not write this code, correct.

11:21:57 4 Q. And you -- you notice that it says DevApp in it, do you
11:22:01 5 see that?

11:22:01 6 A. Yes, I do.

11:22:02 7 Q. And in your testimony, you didn't identify a single
11:22:05 8 difference between the DevApp version of the code and any
11:22:08 9 other version of the code, correct?

11:22:12 10 A. I only talked about the DevApp, correct.

11:22:16 11 Q. Okay. You didn't identify any difference between
11:22:19 12 DevApp version of the code and SDK version of the code as
11:22:23 13 to this portion of the code, correct?

11:22:25 14 A. No, I didn't.

11:22:27 15 Q. Thank you. Now, you told the ladies and gentlemen of
11:22:34 16 the jury that you provided this source code to USAA,
11:22:42 17 correct?

11:22:42 18 A. Yes, that's correct.

11:22:44 19 Q. You provided the source code to Wells Fargo, to be
11:22:48 20 perfectly accurate, correct?

11:22:52 21 A. Yeah, probably. I gave it to counsel.

11:22:55 22 Q. You gave it to the counsel who prepared you for your
11:22:59 23 testimony today, correct, sir?

11:23:00 24 A. They didn't prepare me. We prepared together.

11:23:03 25 Q. Now, at your deposition, we talked about how the MiSnap

11:23:20 1 video frame version, the version at issue in this case,
11:23:24 2 actually worked, correct?

11:23:28 3 A. Are we talking about video frame processing?

11:23:31 4 Q. You and I, we talked about that when we had our
11:23:34 5 deposition together in San Diego?

11:23:36 6 A. That's one thing we talked about, yes.

11:23:38 7 Q. It was in La Jolla, if you remember, sir?

11:23:41 8 A. Yes, I do.

11:23:42 9 Q. Now, in the MiSnap system that's at issue in this case,
11:23:47 10 MiSnap requests that preview frames be sent to it from the
11:23:52 11 camera functionality, correct?

11:23:53 12 A. Yes, that's correct.

11:23:54 13 Q. The camera sends a preview frame to MiSnap, correct?

11:23:58 14 A. Yes, that's correct.

11:23:59 15 Q. A certain number of preview frames will be analyzed for
11:24:03 16 image quality by the Mitek software, correct?

11:24:08 17 A. It depends, but in general, I agree with that.

11:24:10 18 Q. MiSnap receives preview frames from the camera's buffer
11:24:15 19 bound by the size of the buffer, correct?

11:24:16 20 A. It receives frames from the camera. I'm not sure what
11:24:25 21 you mean by the size of the buffer.

11:24:28 22 Q. Why don't we turn to your deposition at Column 4, Lines
11:24:37 23 11 through 17?

11:24:39 24 MR. BITTNER: Your Honor, objection. Improper
11:24:41 25 impeachment.

11:24:45 1 THE COURT: I'll overrule that objection at this
11:24:47 2 time.

11:24:48 3 Let's proceed, Mr. Sheasby.

11:24:53 4 MR. SHEASBY: Sure.

11:24:54 5 Column 4, Lines 11 through 17, why don't we pull
11:24:59 6 that up, Mr. Huynh.

11:25:01 7 Q. (By Mr. Sheasby) Question: Which is the way that
11:25:03 8 MiSnap operates is it takes preview images from the camera
11:25:08 9 buffer, correct?

11:25:08 10 Answer: It receives preview frames from the
11:25:12 11 camera buffer bound by the size of that buffer.

11:25:16 12 Did I read your testimony correctly?

11:25:17 13 A. Okay. That's correct.

11:25:19 14 Q. Does that refresh your recollection?

11:25:24 15 A. Yes.

11:25:25 16 Q. When MiSnap analyzes the preview frames, those are in
11:25:28 17 transitory memory, correct?

11:25:29 18 A. Yes, that's correct.

11:25:31 19 Q. They're preview frames, correct?

11:25:44 20 A. Yes, that's correct.

11:25:45 21 Q. Until the -- if the monitoring criteria are not
11:25:48 22 satisfied regarding that frame, that frame will disappear,
11:25:54 23 correct?

11:25:54 24 A. Yes, I agree with that.

11:25:56 25 Q. Now, if you remember at your deposition in La Jolla, I

11:26:03 1 gave you my phone, correct?

11:26:06 2 A. Yes, I remember.

11:26:07 3 Q. It was an iPhone, correct?

11:26:09 4 A. Yes, that's correct.

11:26:10 5 Q. And I asked you to take a picture of me, and we talked

11:26:14 6 about the preview images that occurs in the iPhone before

11:26:19 7 you press the shutter button, correct?

11:26:22 8 A. Yes, I think we did.

11:26:23 9 Q. And when it's showing you those preview versions of the

11:26:27 10 frame, that's not capturing, is it, Mr. Wood?

11:26:29 11 A. That's -- the camera is capturing images, but it's not

11:26:33 12 the final capture in the iPhone app case.

11:26:37 13 Q. Sir, when you're holding the phone and you're looking

11:26:42 14 at what's called the preview mode, it's a preview, it's not

11:26:47 15 capturing, correct?

11:26:50 16 A. I disagree with that statement.

11:26:53 17 Q. Okay.

11:26:53 18 MR. SHEASBY: Let's turn to Column 66, Lines 23 to

11:26:56 19 67, Line 3 of your deposition.

11:27:05 20 A. I can clear that up later.

11:27:07 21 Q. (By Mr. Sheasby) Question: Now, I want you to do

11:27:12 22 something else. Now I want you to hold the phone, it's

11:27:14 23 looking at what's called preview mode, correct?

11:27:17 24 Answer: Yeah, it's showing -- it's not capturing.

11:27:21 25 It's a preview.

11:27:24 1 Was that your testimony, Mr. Wood?

11:27:27 2 A. That was. We were talking about manual capture at that
11:27:31 3 time.

11:27:31 4 Q. Mr. Wood, when the camera was analyzing the preview
11:27:37 5 frames -- strike that.

11:27:40 6 Mr. Wood, in answer to my question, if you're
11:27:43 7 looking at what's called preview mode, you testified it's
11:27:48 8 not capturing, it's a preview. That was your testimony,
11:27:53 9 correct, sir?

11:27:53 10 A. At this point, yes.

11:27:56 11 Q. So your testimony under oath during your deposition was
11:28:03 12 that when you're looking at the preview mode on a phone,
11:28:08 13 you testified that's not capturing, fair?

11:28:12 14 A. That's not what I meant.

11:28:14 15 Q. Sir, under oath, you testified that when you're looking
11:28:22 16 at the preview mode, that's not capturing, that was the
11:28:25 17 testimony you actually gave under oath, correct?

11:28:27 18 A. At that point, I said that.

11:28:29 19 Q. And you actually had an opportunity to correct your
11:28:32 20 deposition, correct?

11:28:33 21 A. I don't know if I was or not.

11:28:36 22 Q. Did you read your deposition after the fact?

11:28:38 23 A. I did read it, yeah.

11:28:39 24 Q. You didn't make corrections, correct?

11:28:42 25 A. I didn't know how to.

11:28:44 1 Q. You didn't write me a letter saying I -- I made an
11:28:48 2 incorrect statement during my deposition, did you, sir?

11:28:50 3 A. No, I did not. I didn't know that was an option.

11:28:54 4 Q. Did you tell your lawyers you had made an incorrect
11:29:01 5 statement in your deposition, sir?

11:29:02 6 A. I don't remember.

11:29:05 7 Q. Now, let me ask you another question, which is we
11:29:14 8 talked about the preview frames, the fact that they
11:29:20 9 disappear, correct, if there's not a satisfaction of image
11:29:23 10 quality analysis, correct?

11:29:24 11 A. Yes, that's correct.

11:29:25 12 Q. So you talked about the fact that MiSnap assesses
11:29:40 13 monitoring criteria of the preview frames before
11:29:44 14 determining whether it has passed, correct?

11:29:47 15 A. Yes, I did.

11:29:55 16 MR. SHEASBY: And why don't we go to Professor
11:29:57 17 Conte's Slide 117, Mr. Huynh?

11:30:02 18 Q. (By Mr. Sheasby) Now, you weren't here for the
11:30:16 19 testimony of Professor Conte. You were outside of the
11:30:19 20 courtroom, correct?

11:30:21 21 A. Yes, I was outside -- outside, yeah.

11:30:24 22 Q. You heard about the testimony, though, correct, sir?

11:30:26 23 A. No, I did not.

11:30:27 24 Q. Okay. Professor Conte described the monitoring
11:30:34 25 criteria that he believes were used in the Wells Fargo

11:30:37 1 systems, and he listed them with checkmarks in -- for
11:30:42 2 Versions 2.0.6 to 3.1.3, and then for Version 3.7.1.

11:30:49 3 You have no disagreement with his analysis of the
11:30:52 4 monitoring criteria that are used in the Wells Fargo
11:30:55 5 system, fair?

11:30:55 6 A. I don't agree with all of these.

11:31:01 7 Q. Okay. Well, you do agree that --

11:31:04 8 MR. SHEASBY: Let's take that down.

11:31:06 9 Q. (By Mr. Sheasby) You do agree that MiSnap analyzes the
11:31:11 10 brightness of the image, correct?

11:31:12 11 A. Yes, I agree with that.

11:31:13 12 Q. You analyze -- you agree that it analyzes the spacing
11:31:17 13 of the MICR characters, correct?

11:31:19 14 A. Essentially, that's true, yes.

11:31:20 15 Q. You agree that it analyzes corner detection, correct?

11:31:25 16 A. Yes, it does.

11:31:26 17 Q. It analyzes histograms for sharpness, correct?

11:31:30 18 A. Yes, that's -- I agree.

11:31:31 19 Q. You previously described these scores and thresholds as
11:31:36 20 monitoring criteria, correct?

11:31:36 21 A. Yes, I did.

11:31:43 22 Q. Now, we talked about the fact that MiSnap receives
11:31:47 23 preview images from the preview buffer, correct?

11:31:50 24 A. Yes, that's correct.

11:31:52 25 Q. These preview images are transitory, correct?

11:31:55 1 A. Yes, they are.

11:31:56 2 Q. They'll disappear if the monitoring criteria are not
11:32:00 3 satisfied, correct?

11:32:05 4 A. Yes, I agree with that.

11:32:06 5 Q. And the system that Wells Fargo analyzes -- uses
11:32:12 6 analyzes those preview images based on monitoring criteria,
11:32:15 7 correct?

11:32:15 8 A. Yes, I agree with that.

11:32:16 9 Q. And we talked about the fact that the frames will
11:32:21 10 disappear if monitoring criteria are not satisfied, fair?

11:32:23 11 A. Yes, that's fair.

11:32:24 12 Q. And then once the monitoring criteria are met, a JPEG
11:32:29 13 is created, correct?

11:32:32 14 A. Yes, that's correct.

11:32:33 15 Q. And then after the JPEG is created, there's additional
11:32:38 16 JPEG processing, correct? The additional metadata, fair?

11:32:44 17 A. Yes, there's some metadata, that's fair.

11:32:54 18 MR. SHEASBY: And why don't we turn to, Mr. Huynh,
11:32:57 19 Mr. Wood's cross-examination, Demonstrative Slide 1?

11:33:03 20 THE COURT: Counsel, approach the bench, please.

11:33:06 21 (Bench conference.)

11:33:13 22 THE COURT: I've just been told the jury's lunch
11:33:15 23 has arrived. How much additional cross time wise do you
11:33:18 24 think you have, Mr. Sheasby?

11:33:19 25 MR. SHEASBY: 30 minutes, Your Honor, or less.

11:33:21 1 THE COURT: And then I assume you'll have
11:33:24 2 redirect, Mr. Bittner?

11:33:25 3 MR. BITTNER: Yes, Your Honor.

11:33:26 4 THE COURT: This may not be ideal, but we're going
11:33:28 5 to break for lunch at this juncture. You told me 30 more
11:33:32 6 minutes?

11:33:33 7 MR. SHEASBY: I could get it done in 15 if we can
11:33:35 8 get it all done before lunch.

11:33:41 9 MR. BITTNER: I don't know how much redirect I'm
11:33:45 10 going to have. I can't -- I can't commit to Your Honor --

11:33:47 11 THE COURT: I understand that. I'm just trying to
11:33:49 12 get a ballpark idea.

11:33:50 13 MR. SHEASBY: I think my preference, I think, we
11:33:52 14 can finish this witness before lunch.

11:33:56 15 MR. BITTNER: I think that's incredibly ambitious.

11:34:00 16 THE COURT: Well, I'll let you keep going with
11:34:03 17 your cross at least for the time being, okay?

11:34:06 18 MR. SHEASBY: Thank you, Your Honor.

11:34:07 19 (Bench conference concluded.)

11:34:19 20 THE COURT: All right. Let's proceed.

11:34:20 21 Q. (By Mr. Sheasby) So we talked about the fact that the
11:34:24 22 system that Wells Fargo uses receives preview images from
11:34:28 23 the preview buffer, correct?

11:34:28 24 A. Yes, that's correct.

11:34:29 25 Q. And I put that on this demonstratives. Do you see

11:34:33 1 that, sir?

11:34:34 2 A. Yes, I do.

11:34:34 3 Q. We can all agree on that, correct?

11:34:36 4 A. Yes.

11:34:37 5 Q. Those preview images will disappear if the monitoring
11:34:41 6 criteria are not satisfied, correct?

11:34:42 7 A. Yes, that's correct.

11:34:43 8 Q. And then MiSnap analyzes those preview images based on
11:34:46 9 the monitoring criteria, correct, sir?

11:34:49 10 A. Yes, that's correct.

11:34:50 11 Q. And if the monitoring criteria are satisfied, a JPEG
11:35:00 12 file is created, correct?

11:35:01 13 A. Not exactly. I disagree -- disagree with file.

11:35:21 14 Q. I'm happy to reask it. Once the monitoring criteria
11:35:24 15 are met, a JPEG file is created, correct, sir?

11:35:27 16 A. It's encoded as a JPEG, correct.

11:35:30 17 Q. You testified previously that it was created, sir?

11:35:33 18 A. At one point, but I usually refer to it as encoded.

11:35:39 19 Q. Okay. So why don't we go to --

11:35:41 20 A. It's more accurate.

11:35:44 21 Q. -- why don't we go to Column 78, Lines 12 through 19 --

11:35:44 22 MR. BITTNER: Your Honor, may we approach?

11:35:46 23 THE COURT: Approach the bench.

11:35:51 24 (Bench conference.)

11:35:53 25 MR. BITTNER: Your Honor, he testified that's what

11:35:56 1 he -- that -- that Mr. Sheasby's representation was
11:35:57 2 accurate, so there's no impeachment here. He said: Yeah,
11:36:01 3 that's what I said. There's no impeachment.

11:36:06 4 THE COURT: Where are you going with this, Mr.
11:36:08 5 Sheasby?

11:36:08 6 MR. SHEASBY: He was waffling on -- on creating.
11:36:11 7 He said he normally doesn't use the word "create," and I'm
11:36:14 8 establishing that he uses the word "create" in his
11:36:18 9 deposition.

11:36:18 10 MR. BITTNER: He already agreed he did.

11:36:21 11 THE COURT: All right. We need to move on.

11:36:22 12 (Bench conference concluded.)

11:36:30 13 Q. (By Mr. Sheasby) You previously testified that the
11:36:32 14 JPEG was created. Those were your words, correct?

11:36:35 15 A. I do think I said that at one time.

11:36:37 16 Q. You said that in your deposition, correct?

11:36:39 17 A. Correct.

11:36:40 18 Q. You said it earlier today, correct?

11:36:42 19 A. Probably, yes.

11:36:44 20 Q. Okay.

11:36:44 21 MR. SHEASBY: So why don't we put up the
11:36:46 22 demonstrative again?

11:36:48 23 Q. (By Mr. Sheasby) So other than the use of the word
11:36:52 24 "file" next to JPEG, you agree with these three bullet
11:36:54 25 points, correct?

11:36:55 1 A. In general, I agree.

11:36:58 2 Q. Now, I also now want to speak about what happens after
11:37:08 3 the monitoring criteria are passed.

11:37:11 4 MR. SHEASBY: And let's go to Mr. Wood's Cross
11:37:16 5 Demonstrative No. 3.

11:37:17 6 THE COURT: You can certainly ask questions about
11:37:19 7 it. You're not going to speak about it.

11:37:21 8 MR. SHEASBY: I apologize, Your Honor. I withdraw
11:37:23 9 the question.

11:37:23 10 Let's pull up Mr. Wood's Demonstrative No. 3.

11:37:29 11 Q. (By Mr. Sheasby) So, Mr. Wood, you agree that after
11:37:32 12 the monitoring criteria are passed, Code Line 2357 is
11:37:41 13 executed, correct?

11:37:42 14 A. Yes, I agree.

11:37:44 15 Q. And that code line is setting a flag of capturing
11:37:49 16 image, correct?

11:37:50 17 A. Yes, I -- that's fair.

11:37:53 18 Q. And then after the monitoring criteria are passed, Line
11:37:57 19 2374 is set, correct, sir?

11:38:00 20 A. Yes, that's correct.

11:38:01 21 Q. And that defines the capture time, correct?

11:38:04 22 A. It says -- it's the capture session time, yeah.

11:38:09 23 Q. And the session -- the capture session ends after the
11:38:13 24 monitoring criteria have passed, correct?

11:38:17 25 A. The session ends afterwards, yes.

11:38:19 1 Q. And then a message is sent in Lines 2389 that auto
11:38:25 2 capture has started, correct?

11:38:26 3 A. Yes, that's correct.

11:38:28 4 Q. And then in Lines 2481 something is saved in a file
11:38:35 5 called docCaptureResults?

11:38:42 6 A. I don't know what you mean by saved.

11:38:44 7 Q. Image is placed in a file called docCaptureResults,
11:38:51 8 correct?

11:38:51 9 A. In memory, yes. It's not saved.

11:38:52 10 Q. An image is placed in docCaptureResults, correct?

11:39:01 11 A. Yes, I -- no, no, I agree with that.

11:39:03 12 Q. It's the JPEG, correct?

11:39:04 13 A. Yes, it's the JPEG.

11:39:05 14 Q. It's the JPEG that was created after the monitoring
11:39:08 15 criteria has been satisfied, correct?

11:39:09 16 A. Yes, that's correct.

11:39:11 17 Q. And then after that JPEG is created, ultimately, it
11:39:14 18 will be returned to the Wells Fargo app which will send it
11:39:19 19 to the Wells Fargo server, correct?

11:39:21 20 A. MiSnap returns it back to the Wells Fargo app. It's
11:39:26 21 out of our hands after that.

11:39:27 22 Q. It's your basic understanding that it's returned to the
11:39:31 23 server, correct?

11:39:31 24 A. In general, I agree. But that's outside of MiSnap.

11:39:37 25 Q. You have no basis to disagree with the fact that it

11:39:43 1 would be returned to the server and saved permanently at
11:39:45 2 that point, correct?

11:39:46 3 A. I have no idea about that.

11:39:50 4 Q. Okay. Now, you spoke about -- to be clear, you have no
11:39:53 5 idea what Wells Fargo does or does not know about the
11:39:57 6 operation of its version of MiSnap, correct?

11:40:04 7 A. Sorry, I don't understand the question.

11:40:07 8 Q. You haven't interviewed any Wells Fargo witnesses to
11:40:10 9 understand what they knew or didn't know about MiSnap,
11:40:13 10 correct?

11:40:13 11 A. No, I haven't interviewed them.

11:40:15 12 Q. Now, the code we've been looking at, the code that
11:40:18 13 actually does the obtaining of preview frames, the
11:40:23 14 monitoring of those preview frames, and the creation of a
11:40:26 15 JPEG in Android and in iOS, you did not write that code,
11:40:34 16 correct?

11:40:34 17 A. I don't know what you mean by obtained there.

11:40:37 18 Q. I'm happy to reask the question. The code we've been
11:40:40 19 talking about, which is speaking about taking a preview --
11:40:45 20 strike that.

11:40:45 21 The code we've been talking about in which you are
11:40:50 22 receiving a preview image, analyzing it for monitoring
11:40:55 23 criteria, and then creating a JPEG for iOS and Android, you
11:41:00 24 did not create that code, correct, sir?

11:41:02 25 A. For iOS, I didn't. For Android, probably not.

11:41:09 1 Q. Did you speak to the folks who created it?

11:41:12 2 A. I don't know who created each line.

11:41:16 3 Q. Did you ask them whether they were aware of Wells

11:41:19 4 Fargo -- strike that.

11:41:20 5 Did you ask them whether they were aware of USAA's

11:41:23 6 system when they wrote the code?

11:41:25 7 A. No, I didn't ask them about that.

11:41:27 8 Q. So when you testified to the jury that to your

11:41:33 9 knowledge, none of MiSnap's -- Mitek's conduct related to

11:41:36 10 USAA, you actually hadn't investigated by speaking to the

11:41:41 11 people who created the code that's at issue in this case,

11:41:45 12 fair?

11:41:46 13 MR. BITTNER: Objection, Your Honor. Misstates
11:41:49 14 testimony.

11:41:49 15 THE COURT: Overruled.

11:41:51 16 A. Those developers were not at MiSnap -- or Mitek

11:41:54 17 anymore. I didn't speak to them.

11:41:56 18 Q. (By Mr. Sheasby) And you didn't speak to them about

11:41:58 19 what they knew about USAA, correct?

11:41:59 20 A. No, I did not.

11:42:00 21 Q. You didn't speak to them about whether they looked at

11:42:04 22 USAA's application, correct?

11:42:05 23 A. No, I did not.

11:42:06 24 Q. Did you do anything whatsoever other than -- strike

11:42:08 25 that.

11:42:09 1 Did you do anything whatsoever at any point in
11:42:12 2 time to investigate whether Wells Fargo and Mitek were
11:42:16 3 focused on USAA when the relevant code at issue in this
11:42:20 4 case was being created?

11:42:22 5 A. In a way. I looked at some of the really old code
11:42:29 6 from -- and saw where it came from -- from 2007, I think it
11:42:33 7 was, so I did some research. But I did not talk to those
11:42:37 8 developers.

11:42:38 9 Q. Well, we're not dealing with code from 2007, correct,
11:42:41 10 sir?

11:42:41 11 A. I guess that's correct.

11:42:43 12 Q. We're dealing with code that was created, under your
11:42:45 13 testimony, September 2014, correct?

11:42:47 14 A. Yes.

11:42:48 15 Q. And as of September 2014, you did nothing to
11:42:52 16 investigate whether the Mitek employees who created it had
11:42:55 17 access to USAA materials, correct?

11:42:57 18 A. Oh, since September 2014?

11:43:00 19 Q. No, no. Let me withdraw the question and ask it this
11:43:03 20 way.

11:43:03 21 Did you do anything to investigate whether the
11:43:05 22 folks who wrote the code at issue in this case were aware
11:43:11 23 of USAA's systems?

11:43:12 24 A. I -- since September 2014, you're saying?

11:43:26 25 Developers -- no, I didn't talk to those developers.

11:43:32 1 Q. Okay. Now, sir, because you don't have access to the
11:43:56 2 iOS operating system and because you haven't delved into
11:44:01 3 Android because you weren't instructed to do so, you can't
11:44:04 4 point me to any single document -- any single line of code
11:44:09 5 anywhere in the world that states that capture occurs
11:44:11 6 before the monitoring criteria are analyzed, correct?

11:44:14 7 A. That's correct.

11:44:17 8 MR. SHEASBY: I have no further questions, Your
11:44:19 9 Honor. I pass the witness.

11:44:20 10 THE COURT: All right. Ladies and gentlemen,
11:44:24 11 before we proceed with the Defendant's redirect, we're
11:44:27 12 going to recess for lunch.

11:44:29 13 I'm going to ask you to take your juror notebooks
11:44:31 14 with you to the jury room, follow all the instructions I've
11:44:35 15 given you about your conduct throughout the trial,
11:44:38 16 including not to discuss the case with each other. After
11:44:41 17 lunch, we'll proceed with any redirect testimony that the
11:44:45 18 Defendant may have with this witness.

11:44:47 19 With those instructions, the jury is excused for
11:44:49 20 lunch.

11:44:50 21 COURT SECURITY OFFICER: All rise.

11:44:51 22 (Jury out.)

11:44:52 23 THE COURT: Mr. Wood, you're clearly in the
11:45:20 24 middle of testifying. We're breaking for lunch. I'm
11:45:23 25 instructing you not to discuss your testimony over the

11:45:25 1 lunch break with Wells Fargo or any third party.

11:45:29 2 THE WITNESS: I understand.

11:45:29 3 THE COURT: All right. We stand in recess for
11:45:32 4 lunch.

11:45:32 5 COURT SECURITY OFFICER: All rise.

11:45:33 6 (Recess.)

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CERTIFICATION

I HEREBY CERTIFY that the foregoing is a true and correct transcript from the stenographic notes of the proceedings in the above-entitled matter to the best of my ability.

/S/ Shelly Holmes
SHELLY HOLMES, CSR, TCRR
OFFICIAL REPORTER
State of Texas No.: 7804
Expiration Date: 12/31/20

11/4/19
Date